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| 1. Find all solutions of the equation.  ​  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.5 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/14/2015 2:49 AM | |

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| 2. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.7 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 6:28 AM | |

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| 3. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.11 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 1:33 AM | |

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| 4. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.13 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 1:37 AM | |

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| 5. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.16 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 6:36 AM | |

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| 6. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.8 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 6:49 AM | |

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| 7. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 4 | |  | b. | 6 | |  | c. | 3 | |  | d. | 2 | |  | e. | 5 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.35 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 1:48 AM | |

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| 8. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.36 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 1:55 AM | |

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| 9. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | –19 | |  | b. | –22 | |  | c. | –18 | |  | d. | –21 | |  | e. | –20 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.38 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 1:56 AM | |

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| 10. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | –66 | |  | b. | –65 | |  | c. | –68 | |  | d. | –67 | |  | e. | –64 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.39 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 7:10 AM | |

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| 11. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 9 | |  | b. | 10 | |  | c. | 12 | |  | d. | 13 | |  | e. | 11 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.45 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/14/2015 9:13 AM | |

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| 12. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 3 | |  | b. | 4 | |  | c. | 0 | |  | d. | 1 | |  | e. | 2 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.43 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 2:00 AM | |

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| 13. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 0 | |  | b. | 1 | |  | c. | 2 | |  | d. | No solution | |  | e. | 3 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.44 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 2:04 AM | |

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| 14. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 6 | |  | b. | 3 | |  | c. | 4 | |  | d. | 5 | |  | e. | 7 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.48 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/14/2015 9:25 AM | |

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| 15. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 8 | |  | b. | 10 | |  | c. | 7 | |  | d. | 9 | |  | e. | 11 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.52 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 7:25 AM | |

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| 16. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.55 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 12/24/2014 1:48 AM | |

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| 17. Find all solutions of the equation. Don't assume a complex-valued square root.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | 4 | |  | b. | 5 | |  | c. | 2 | |  | d. | 3 | |  | e. | 1 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.57 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 7:31 AM | |

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| 18. Find all solutions of the equation.  ​  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. | 4 | |  | c. |  | |  | d. |  | |  | e. | – 4 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.50 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/14/2015 9:44 AM | |

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| 19. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | ±15 | |  | b. | ±14 | |  | c. | ±16 | |  | d. | ±13 | |  | e. | ±12 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.70 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 7:34 AM | |

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| 20. Find the real solutions of the equation algebraically. Round your answer to three decimal places.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | ±2.405 | |  | b. | ±1.405 | |  | c. | ±0.405 | |  | d. | ±3.405 | |  | e. | ±4.405 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.81 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 8:01 AM | |

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| 21. Select the equation which has the given solutions.  ​  – 8, 4  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.89 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 2:48 AM | |

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| 22. Select the equation which has the given solutions.  ​  0, 4, 8  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.90 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 2:51 AM | |

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| 23. Select the equation which has the given solutions.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.95 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 8:15 AM | |

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| 24. Select the equation which has the given solutions.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.97 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 8:24 AM | |

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| 25. Select the equation which has the given solutions.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.98 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 3:23 AM | |

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| 26. An airline offers daily flights between Chicago and Denver. The total monthly cost *C* (in millions of dollars) of these flights is  where *x* is the number of passengers (in thousands). The total cost of the flights for June is 3.6 million dollars. How many passengers flew in June?  ​   |  |  |  | | --- | --- | --- | |  | a. | 62,800 passengers | |  | b. | 56,800 passengers | |  | c. | 61,800 passengers | |  | d. | 57,800 passengers | |  | e. | 59,800 passengers |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.108 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 3:25 AM | |

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| 27. The demand equation for a video game is modeled by  where *x* is the number of units demanded per day and *p* is the price per unit. Approximate the demand when the price is $37.65. Round your answer to the nearest whole number.  ​   |  |  |  | | --- | --- | --- | |  | a. | 502 units | |  | b. | 352 units | |  | c. | 552 units | |  | d. | 452 units | |  | e. | 402 units |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.109 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 8:33 AM | |

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| 28. The temperature (in degrees Fahrenheit) of saturated steam increases as pressure increases. This relationship is approximated by the model    where *x* is the absolute pressure (in pounds per square inch). Complete the table. Round your answers to two decimal places.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Absolute pressure, *x* | 15 | 20 | 25 | 35 | 40 | | Temperature, *T* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | a. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *x* | 15 | 20 | 25 | 35 | 40 | | *T* | 212.68 | 266.60 | 240.62 | 259.38 | 228.20 | | |  | b. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *x* | 15 | 20 | 25 | 35 | 40 | | *T* | 212.68 | 228.20 | 240.62 | 259.38 | 266.60 | | |  | c. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *x* | 15 | 20 | 25 | 35 | 40 | | *T* | 212.68 | 228.20 | 240.62 | 266.60 | 259.38 | | |  | d. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *x* | 15 | 20 | 25 | 35 | 40 | | *T* | 212.68 | 240.62 | 228.20 | 259.38 | 266.60 | | |  | e. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *x* | 15 | 20 | 25 | 35 | 40 | | *T* | 212.68 | 228.20 | 259.38 | 240.62 | 266.60 | |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.107a | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 8:36 AM | |

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| 29. A meteorologist is positioned 100 feet from the point where a weather balloon is launched. When the balloon is at height *h,* the distance *d* (in feet) between the meteorologist and the balloon is . Complete the table. Use the table to approximate the value of *h* when . Round your answers to two decimal places.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *h* | 160 | 165 | 170 | 175 | 185 | | *d* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | a. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *h* | 160 | 165 | 170 | 175 | 185 | | *d* | 188.68 | 192.94 | 197.23 | 210.30 | 201.56 |   ​  The height is between 170 and 175 feet when *d* = 200. | |  | b. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *h* | 160 | 165 | 170 | 175 | 185 | | *d* | 188.68 | 197.23 | 192.94 | 201.56 | 210.30 |   ​  The height is between 170 and 175 feet when *d* = 200. | |  | c. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *h* | 160 | 165 | 170 | 175 | 185 | | *d* | 188.68 | 210.30 | 197.23 | 201.56 | 192.94 |   ​  The height is between 170 and 175 feet when *d* = 200. | |  | d. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *h* | 160 | 165 | 170 | 175 | 185 | | *d* | 188.68 | 192.94 | 201.56 | 197.23 | 210.30 |   ​  The height is between 170 and 175 feet when *d* = 200. | |  | e. | ​   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | *h* | 160 | 165 | 170 | 175 | 185 | | *d* | 188.68 | 192.94 | 197.23 | 201.56 | 210.30 |   ​  The height is between 170 and 175 feet when *d* = 200. |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.112b | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 8:37 AM | |

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| 30. You construct a cone with a base radius of 8 inches. The lateral surface area *S* of the cone can be represented by the equation  ​  where *h* is the height of the cone.  Find *h* algebraically when . Round the answer to one decimal place.  ​   |  |  |  | | --- | --- | --- | |  | a. | 12.4 | |  | b. | 13.4 | |  | c. | 14.4 | |  | d. | 15.4 | |  | e. | 16.4 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.113c | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 8:39 AM | |

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| 31. Find all solutions of the equation .  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.76 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 8:40 AM | |

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| 32. Consider an equation of the form  where *a* and *b* are constants.  Which of the following values of *a* and *b* will satisfy the equation when the solution of the equation is ?  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.127 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/22/2014 5:23 AM | |

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| 33. Find all real solutions of the equation .  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.7 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 11:09 AM | |

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| 34. Find all solutions of the following equation.  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.11 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 11:20 AM | |

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| 35. Find all solutions of the equation .  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.12 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 11:22 AM | |

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| 36. Find all solutions of the following equation.  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.38 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 11:23 AM | |

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| 37. Find all solutions of the following equation.  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.40 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 11:25 AM | |

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| 38. Find all solutions of the following equation.       |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.42 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 11:31 AM | |

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| 39. Find all solutions of the following equation.       |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.43 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 11:33 AM | |

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| 40. Find all solutions of the following equation.       |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. | No solution | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.51 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 11:36 AM | |

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| 41. Find all solutions of the following equation.       |  |  |  | | --- | --- | --- | |  | a. | No solution | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.66 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 11:39 AM | |

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| 42. Find all solutions of .     |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 1-14 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.084 - Solve polynomial equation | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.4 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 11:44 AM | |

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| 43. Find all solutions of .   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 1-14 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.085 - Solve equation involving fractions | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.11 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/14/2015 11:15 AM | |

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| 44. Find all solutions of the following equation algebraically.    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 1-14 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.086 - Solve equation for all solutions | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.14 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 11:49 AM | |

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| 45. Find the *x*-intercepts of the graph of the equation .     |  |  |  | | --- | --- | --- | |  | a. | *x*-intercepts: | |  | b. | *x*-intercepts: | |  | c. | *x*-intercepts: | |  | d. | *x*-intercepts: | |  | e. | *x*-intercepts: |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 15-18 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.087 - Solve for the x-intercepts of the graph of an equation | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.16c | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:15 AM | |

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| 46. In the following equation set *y* = 0 and solve.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 15-18 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.088 - Solve equation in quadratic form | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.18c | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 12:03 PM | |

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| 47. Find all solutions of the following equation algebraically.  ​    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 19-48 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.089 - Solve radical equations | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.24 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/23/2014 5:16 AM | |

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| 48. Find all solutions of .     |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 19-48 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.089 - Solve radical equations | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.35 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 12:06 PM | |

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| 49. Find all solutions of the following equation algebraically.    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 19-48 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.089 - Solve radical equations | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.37 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 12:07 PM | |

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| 50. Find all solutions of the following equation algebraically.    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 19-48 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.089 - Solve radical equations | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.38 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 1:11 PM | |

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| 51. Find all solutions of the following equation algebraically.    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 19-48 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.090 - Solve an equation with rational exponents | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.40 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 1:21 PM | |

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| 52. Find all solutions of the following equation algebraically.       |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 19-48 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.090 - Solve an equation with rational exponents | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.44 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/12/2021 1:45 PM | |

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| 53. Find all solutions of .     |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 19-48 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.090 - Solve an equation with rational exponents | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.46 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:06 AM | |

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| 54. Find all solutions of the following equation algebraically.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficult | | *REFERENCES:* | 19-48 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.090 - Solve an equation with rational exponents | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.48 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:09 AM | |

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| 55. Find the *x-*intercepts of the graph of the equation .     |  |  |  | | --- | --- | --- | |  | a. | *x*-intercept: | |  | b. | *x*-intercepts: | |  | c. | *x*-intercept: | |  | d. | *x*-intercepts: | |  | e. | *x*-intercepts: |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 49-52 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.087 - Solve for the x-intercepts of the graph of an equation | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.51c | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:13 AM | |

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| 56. Set *y* = 0 and solve the resulting equation.    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 49-52 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.089 - Solve radical equations | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.52b | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:16 AM | |

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| 57. Find all solutions of  .     |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 53-66 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.085 - Solve equation involving fractions | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.54 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:23 AM | |

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| 58. Find all solutions of the following equation.   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 53-66 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.091 - Solve a rational equation | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.56 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/23/2014 7:15 AM | |

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| 59. Find all solutions of the following equation.    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 53-66 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.085 - Solve equation involving fractions | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.59 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:25 AM | |

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| 60. Find all solutions of .     |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 53-66 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.092 - Solve absolute value equations | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.62 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:37 AM | |

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| 61. Find all solutions of the following equation.    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficult | | *REFERENCES:* | 53-66 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.093 - Solve equation involving absolute value | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.64 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:39 AM | |

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| 62. Find all solutions of the following equation.    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Difficult | | *REFERENCES:* | 53-66 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.093 - Solve equation involving absolute value | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.66 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:40 AM | |

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| 63. Set *y* = 0 and solve the resulting equation.    ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 67-70 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.094 - Solve equation involving rational expression | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.68c | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:43 AM | |

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| 64. Find the *x-*intercepts of the graph of the equation .     |  |  |  | | --- | --- | --- | |  | a. | *x*-intercepts: | |  | b. | *x*-intercepts: | |  | c. | *x*-intercepts: | |  | d. | *x*-intercepts: | |  | e. | *x*-intercepts: |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 67-70 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.087 - Solve for the x-intercepts of the graph of an equation | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.70c | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:44 AM | |

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| 65. Find an equation that has *x* = *i*,–*i*, 4, and 2 as solutions.     |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *REFERENCES:* | 87-92 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *LEARNING OBJECTIVES:* | PREC.LARS.16.095 - Write a possible equation given roots | | *TOPICS:* | 2.5 | | *KEYWORDS:* | 2.5.92 | | *NOTES:* | Skill | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:45 AM | |

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| 66. Solve the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | *x* = 8 | |  | b. | *x* = 10 | |  | c. | *x* = 11 | |  | d. | *x* = 9 | |  | e. | *x* = 7 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:47 AM | |

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| 67. Solve the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | *x* = 150 | |  | b. | *x* = 25 | |  | c. | *x* = 8 | |  | d. | *x* = 15 | |  | e. | *x* = 75 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:48 AM | |

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| 68. Solve the following equation (if possible).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | *x* = 45 | |  | b. | *x* = 9 | |  | c. | *x* = 18 | |  | d. | *x* = 4.5 | |  | e. | No solution |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:48 AM | |

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| 69. Solve the following equation (if possible).  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | *x* = 3 | |  | b. | *x* = -5 | |  | c. | *x* = -3 | |  | d. | *x* = 5 | |  | e. | No solution |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:52 AM | |

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| 70. Determine any point(s) of intersection of the following equations algebraically.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | (6, 27) | |  | b. | (3, 15) | |  | c. | (4, 19) | |  | d. | (5, 23) | |  | e. | (7, 31) |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 5:58 AM | |

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| 71. Determine any point(s) of intersection of the following equations algebraically.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | (7, 133)  (6, 108) | |  | b. | (3, 39)  (2, 16) | |  | c. | (5, 85)  (4, 62) | |  | d. | (4, 62)  (3, 39) | |  | e. | (6, 108)  (5, 85) |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/23/2014 8:49 AM | |

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| 72. Find the value of *x* that solves the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | *x* = 13 | |  | b. | *x* = 22 | |  | c. | *x* = 29 | |  | d. | *x* = –1 | |  | e. | *x* = 43 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:00 AM | |

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| 73. Find the values of *x* that solve the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:08 AM | |

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| 74. Find the values of *x* that solve the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:16 AM | |

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| 75. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:22 AM | |

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| 76. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:24 AM | |

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| 77. Find all solutions of the equation.  ​  ​  Round all answers to the nearest hundredth.  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:27 AM | |

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| 78. Find all solutions of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. | None of the above |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:29 AM | |

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| 79. The population of a small town can be modelled by the equation  with  , where *t* = 0 corresponds to 1970. According to this model, when did the population reach 12,901?  ​   |  |  |  | | --- | --- | --- | |  | a. | 1988 | |  | b. | 1986 | |  | c. | 1985 | |  | d. | 1984 | |  | e. | 1987 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:31 AM | |

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| 80. The average salary (in thousands of dollars) at a certain company for the first ten years of its existence can be approximated by the model   . How many years did it take for the average salary to reach $37,500? Round the answer to the nearest hundredth of a year.  ​   |  |  |  | | --- | --- | --- | |  | a. | 427.37 | |  | b. | 427.30 | |  | c. | 427.48 | |  | d. | 427.61 | |  | e. | 427.96 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:33 AM | |

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| 81. Use a graphing utility to graph the equation.  ​  *y* = *x*3 – 5*x*2 – 6*x*  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. |  | b. |  | |  | c. |  | d. |  | |  | e. |  |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.31 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:38 AM | |

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| 82. Use a graphing utility to graph the equation.  *y* = *x*4 – 17*x*2 + 16    ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.33 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:43 AM | |

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| 83. Use a graphing utility to graph the equation.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.59 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:44 AM | |

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| 84. Use a graphing utility to graph the equation.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.61 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:46 AM | |

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| 85. Use a graphing utility to graph the equation.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.77 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:48 AM | |

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| 86. Use a graphing utility to graph the equation.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.78 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:50 AM | |

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| 87. Use a graphing utility to graph the equation.  ​  *y* = |*x* – 5| – 7  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. |  | b. |  | |  | c. |  | d. |  | |  | e. |  |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.80 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 6:54 AM | |

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| 88. Use a graphing utility to graph the equation.  ​  *y* = |*x* + 5| – 7  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. |  | b. |  | |  | c. |  | d. |  | |  | e. |  |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.79 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 9:04 AM | |

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| 89. Select the correct graph of the equation.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. |  | b. |  | |  | c. |  | d. |  | |  | e. |  |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | 1.6.62 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 9:09 AM | |

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| 90. Use a graphing utility to graph the following equation and approximate any *x*-intercepts of the graph. Round the answer to the nearest whole number.    ​   |  |  |  | | --- | --- | --- | |  | a. | *x* ≈ –3, *x*≈ 6 | |  | b. | *x ≈*5 | |  | c. | *x ≈*–3, *x*≈ 5 | |  | d. | *x* ≈ 2 | |  | e. | *x* ≈ 3 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 49-52 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 9:23 AM | |

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| 91. Graph the equation and approximate the *x*-intercepts to the nearest hundredth.  ​  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | (7.51, 0), (1.49, 0) | b. | (7.23, 0), (1.77, 0) | |  | c. | (7.83, 0), (1.17, 0) | d. | (7.70, 0), (1.30, 0) | |  | e. | (7.35, 0), (1.65, 0) |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 9:28 AM | |

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| 92. Find the *x*- and  *y*-intercepts of the graph of the equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | *x*-intercept: (, 0); *y*-intercept: (0, ) | |  | b. | *x*-intercept: (, 0); *y*-intercept: (0, ) | |  | c. | *x*-intercept: (, 0); *y*-intercept: (0, ) | |  | d. | *x*-intercept: (, 0); *y*-intercept: (0, ) | |  | e. | *x*-intercept: (, 0); *y*-intercept: (0, ) |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 9/23/2014 6:43 AM | | *DATE MODIFIED:* | 5/13/2021 9:36 AM | |

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| 93. ​Which of the following is a zero of the given function?  ​  ​  ​*x* = , *x* = , *x* = 17, *x* =   |  |  |  | | --- | --- | --- | |  | a. | ​*x* = | |  | b. | ​*x* = | |  | c. | ​*x* = 17 | |  | d. | ​*x* = | |  | e. | ​None of these |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 9/23/2014 7:47 AM | | *DATE MODIFIED:* | 9/23/2014 8:16 AM | |

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| 94. Which of the following is a zero of the given function?  *x* = 3, *x* = –5, *x* = –2, *x* = 8   |  |  |  | | --- | --- | --- | |  | a. | *x* = 3 | |  | b. | *x* = –5 | |  | c. | *x* = –2 | |  | d. | *x* = 8 | |  | e. | none of these |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 15-20 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 9/23/2014 8:31 AM | |

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| 95. Solve the following equation.  ​  ​10(*x* + 4) = –10(*x* + 9) + 210  ​   |  |  |  | | --- | --- | --- | |  | a. | ​​*x* = | |  | b. | ​​*x* = 8 | |  | c. | ​*x* = 4 | |  | d. | ​​*x* = –4 | |  | e. | ​​*x* = 17 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 9/23/2014 8:36 AM | | *DATE MODIFIED:* | 9/23/2014 8:52 AM | |

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| 96. Solve for *x* rounding your answer to the nearest thousandth.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | –0.106 | |  | b. | 4.193 | |  | c. | 0.386 | |  | d. | –0.509 | |  | e. | 0.047 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 21-34 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 9:47 AM | |

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| 97. Solve the following equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | –4 | |  | b. | –7 | |  | c. | –3 | |  | d. | –21 | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 9/23/2014 9:10 AM | | *DATE MODIFIED:* | 5/13/2021 9:50 AM | |

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| 98. Solve the following equation.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 9/23/2014 9:33 AM | | *DATE MODIFIED:* | 5/13/2021 9:49 AM | |

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| 99. Solve the following equation.​  ​  ​(*x* + 20)2 – 12(*x* – 12) = ​(*x* + 20)(*x* – 12)  ​   |  |  |  | | --- | --- | --- | |  | a. | ​ | |  | b. | ​–8 | |  | c. | ​ | |  | d. | ​ | |  | e. | ​ |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 9/23/2014 10:14 AM | | *DATE MODIFIED:* | 9/23/2014 10:45 AM | |

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| 100. Determine any point(s) of intersection between the following equations.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. | (, ) | |  | b. | (, ) | |  | c. | (, ) | |  | d. | (, ) | |  | e. | (, ) |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 9/23/2014 10:52 AM | | *DATE MODIFIED:* | 5/13/2021 9:52 AM | |

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| 101. Determine any point(s) of intersection between the following equations.       |  |  |  | | --- | --- | --- | |  | a. | (2, –2) | |  | b. | (–4, –8), (2, –2) | |  | c. | (–1, 4), (4, –16) | |  | d. | (–2, 2) | |  | e. | (4, –16) |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | 57-64 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *STUDENT ENTRY MODE:* | Basic | | *DATE CREATED:* | 6/10/2014 4:16 PM | | *DATE MODIFIED:* | 5/13/2021 9:57 AM | |