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| 1. Approximate the coordinates of the points.  ​   |  |  |  | | --- | --- | --- | |  | a. | ​*A*: (4, 2), *B*: (–6, –6), *C*: (5, 2), *D*: (6, –5) | |  | b. | ​*A*: (1, 2), *B*: (–6, –6), *C*: (5, 2), *D*: (6, –5) | |  | c. | ​​*A*: (2, 2), *B*: (–6, –6), *C*: (5, 2), *D*: (6, –5) | |  | d. | ​​*A*: (3, 2), *B*: (–6, –6), *C*: (5, 2), *D*: (6, –5) | |  | e. | ​​​*A*: (–1, 2), *B*: (–6, –6), *C*: (5, 2), *D*: (6, –5) |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | P.6.5 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 9/15/2014 8:06 AM | | *DATE MODIFIED:* | 9/15/2014 8:43 AM | |

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| 2. Find the coordinates of the point labeled **II**.   |  |  |  | | --- | --- | --- | |  | a. | (-4, -3) | |  | b. | (-4, 3) | |  | c. | (3, 4) | |  | d. | (4, 3) | |  | e. | (-3, -4) |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.6 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/11/2014 12:57 AM | |

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| 3. Approximate the coordinates of the points.  ​  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | P.6.6 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/11/2014 1:23 AM | |

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| 4. Which label corresponds to the coordinates (–3, –5)?   |  |  |  | | --- | --- | --- | |  | a. | VI | |  | b. | VIII | |  | c. | V | |  | d. | VII | |  | e. | none |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | P.6.7 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/21/2014 4:56 AM | |

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| 5. Plot the points in the Cartesian plane.  ​  (–4, 1), (–5, –2), (5, 4), (2, –4)  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | P.6.7 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 9/15/2014 9:08 AM | | *DATE MODIFIED:* | 9/15/2014 9:20 AM | |

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| 6. Plot the points below whose coordinates are given on a Cartesian coordinate system.  ​  (5, 2), (9, –6), (2, –4), (9, –5)  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | P.6.8 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 9/18/2014 9:25 AM | |

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| 7. ​Plot the points in the Cartesian plane.  ​  (2, 6), (2.5, 6), (3, –6), (–6, 4.5)  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.9 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 9/16/2014 1:25 AM | | *DATE MODIFIED:* | 9/16/2014 1:36 AM | |

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| 8. Plot the points in the Cartesian plane.  ​  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. |  | d. | ​ | |  | e. |  |  |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | P.6.10 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/11/2014 1:22 AM | |

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| 9. A point is located six units to the left of the *y-*axis and seven units above the *x-*axis. Find the coordinates of the point.  ​   |  |  |  | | --- | --- | --- | |  | a. | (–6, 7) | |  | b. | (7, 6) | |  | c. | (–6, –7) | |  | d. | (6, –7) | |  | e. | (6, 7) |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | P.6.11 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/11/2014 1:26 AM | |

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| 10. Find the coordinates for the point that is four units to the left of the *y*-axis and is six units up from the *x*-axis.   |  |  |  | | --- | --- | --- | |  | a. | (-4, -6) | |  | b. | (4, -6) | |  | c. | (-4, 6) | |  | d. | (6, 6) | |  | e. | (4, 6) |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | P.6.12 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/11/2014 1:32 AM | |

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| 11. A point is located five units below the *x-*axis and the coordinates of the point are equal. Find the coordinates of the point.  ​   |  |  |  | | --- | --- | --- | |  | a. | (–5, 5) | |  | b. | (–5, 0) | |  | c. | (5, –5) | |  | d. | (–5, –5) | |  | e. | (5, 5) |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.13 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/11/2014 1:34 AM | |

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| 12. Determine the quadrant(s) in which (*x*, *y*) is located so that the condition(s) is (are) satisfied.  ​  *x* > 7 and *y* < 0  ​   |  |  |  | | --- | --- | --- | |  | a. | Quadrant I and IV | |  | b. | Quadrant III | |  | c. | Quadrant I | |  | d. | Quadrant IV | |  | e. | Quadrant II |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.15 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/20/2014 8:03 AM | |

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| 13. Determine the quadrant(s) in which (*x*, *y*) is located so that the condition(s) is (are) satisfied.  ​  *x* < –8 and *y* < –6  ​   |  |  |  | | --- | --- | --- | |  | a. | Quadrant I | |  | b. | Quadrant I and II | |  | c. | Quadrant III | |  | d. | Quadrant II | |  | e. | Quadrant IV |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | P.6.16 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/20/2014 8:05 AM | |

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| 14. Determine the quadrant(s) in which (*x*, *y*) is located so that the condition(s) is (are) satisfied.  ​  *x* = –2 and *y* > 0  ​   |  |  |  | | --- | --- | --- | |  | a. | Quadrant IV | |  | b. | Quadrant II or IV | |  | c. | Quadrant II | |  | d. | Quadrant I | |  | e. | Quadrant III |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | P.6.17 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/20/2014 8:11 AM | |

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| 15. Determine the quadrant(s) in which (*x*, *y*) is located so that the condition(s) is (are) satisfied.  ​  *x* > 3 and *y* = 1  ​   |  |  |  | | --- | --- | --- | |  | a. | Quadrant III | |  | b. | Quadrant I | |  | c. | Quadrant III and IV | |  | d. | Quadrant II | |  | e. | Quadrant IV |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | P.6.18 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/12/2014 3:18 AM | |

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| 16. Determine the quadrant(s) in which (*x*, *y*) is located so that the condition(s) is (are) satisfied.  ​  *y* < –6  ​   |  |  |  | | --- | --- | --- | |  | a. | Quadrant II or IV | |  | b. | Quadrant III or IV | |  | c. | Quadrant IV | |  | d. | Quadrant I | |  | e. | Quadrant II |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | P.6.19 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/20/2014 8:17 AM | |

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| 17. Determine the quadrant(s) in which (*x*, *y*) is located so that the condition(s) is (are) satisfied.  ​  *x* < –9 and – *y* > 6  ​   |  |  |  | | --- | --- | --- | |  | a. | Quadrant I | |  | b. | Quadrant II | |  | c. | Quadrant IV | |  | d. | Quadrant III | |  | e. | Quadrant I or IV |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.21 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/12/2014 3:20 AM | |

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| 18. Determine the quadrant(s) in which (*x*, *y*) is located so that the conditions(s) is (are) satisfied.  ​  – *x* > 6 and *y* < –2  ​   |  |  |  | | --- | --- | --- | |  | a. | Quadrant III | |  | b. | Quadrant I | |  | c. | Quadrant II | |  | d. | Quadrant I or IV | |  | e. | Quadrant IV |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | P.6.22 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/12/2014 3:22 AM | |

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| 19. Determine the quadrant(s) in which (*x*, *y*) is located so that the condition(s) is (are) satisfied.  ​  *xy* < –4  ​   |  |  |  | | --- | --- | --- | |  | a. | Quadrant II or III | |  | b. | Quadrant I or III | |  | c. | Quadrant III or IV | |  | d. | Quadrant II or IV | |  | e. | Quadrant I or IV |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.24 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/20/2014 8:28 AM | |

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| 20. Sketch a scatter plot of the data shown in the table.  The table shows the number *y* of Wal-Mart stores for each year *x* from 2000 through 2007.   |  |  | | --- | --- | | Year, *x* | Number of stores, *y* | | 2000 | 3700 | | 2001 | 4400 | | 2002 | 4680 | | 2003 | 5010 | | 2004 | 5550 | | 2005 | 6360 | | 2006 | 6680 | | 2007 | 7340 |      |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​  *x*: Year (0 ↔ 2000)  *y*: Number of stores | b. | ​  *x*: Year (0 ↔ 2000)  *y*: Number of stores | |  | c. | ​  ​  *x*: Year (0 ↔ 2000)  *y*: Number of stores | d. | ​  *x*: Year (0 ↔ 2000)  *y*: Number of stores | |  | e. | ​  *x*: Year (0 ↔ 2000)  *y*: Number of stores |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | P.6.25 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/20/2014 8:51 AM | |

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| 21. Sketch a scatter plot of the data shown in the table.  The table shows the lowest temperature on record *y* (in degrees Fahrenheit) in Duluth, Minnesota  for each month *x* where *x* = 1  represents from January.   |  |  | | --- | --- | | Months, *x* | Temperature, *y* | | 1 | –46 | | 2 | –36 | | 3 | –23 | | 4 | –7 | | 5 | 14 | | 6 | 25 | | 7 | 31 | | 8 | 42 | | 9 | 24 | | 10 | 3 | | 11 | –26 | | 12 | –15 |      |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | *x*: Months (1 ↔ January)  *y*: Temperature (in Fº) | b. | *x*: Months (1 ↔ January)  *y*: Temperature (in Fº) | |  | c. | ​  *x*: Months (1 ↔ January)  *y*: Temperature (in Fº) | d. | ​  *x*: Months (1 ↔ January)  *y*: Temperature (in Fº) | |  | e. | *x*: Months (1 ↔ January)  *y*: Temperature (in Fº) |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | P.6.26 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 5/13/2015 6:53 AM | |

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| 22. Find the distance between the two points (6, 1) and (6, 7).   |  |  |  | | --- | --- | --- | |  | a. | 1 | |  | b. | 13 | |  | c. | 12 | |  | d. | 11 | |  | e. | 6 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | P.6.27 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/21/2014 1:47 AM | |

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| 23. Find the distance between the two points (–3, –1) and (13, 29).   |  |  |  | | --- | --- | --- | |  | a. | 65 | |  | b. | 68 | |  | c. | 102 | |  | d. | 31 | |  | e. | 34 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | P.6.28 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/21/2014 1:51 AM | |

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| 24. Find the distance between the two points (10, 7) and (–5, 7).  ​   |  |  |  | | --- | --- | --- | |  | a. | 30 | |  | b. | 20 | |  | c. | 12 | |  | d. | 40 | |  | e. | 15 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | P.6.29 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/21/2014 1:55 AM | |

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| 25. Find the distance between the points.  ​  (–8, –5), (–2, 3)  ​   |  |  |  | | --- | --- | --- | |  | a. | 10​ | |  | b. | 100 | |  | c. | 2 | |  | d. | 5 | |  | e. | 8 |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | P.6.30 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/12/2014 4:35 AM | |

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| 26. Find the distance between the points.  ​  (–9, 4), (3, –5)  ​   |  |  |  | | --- | --- | --- | |  | a. | 4 | |  | b. | 15 | |  | c. | 9 | |  | d. | 3 | |  | e. | 225 |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | P.6.31 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/12/2014 4:40 AM | |

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| 27. Find the distance between the points. (Round the answer to two decimal places)  ​  (–6.5, 4.9), (–9.5, 7.5)  ​   |  |  |  | | --- | --- | --- | |  | a. | 15.76 | |  | b. | 9.5 | |  | c. | 7.5 | |  | d. | 3.97 | |  | e. | 6.5 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.37 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/12/2014 4:44 AM | |

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| 28. Find the distance between the points. (Round the answer to two decimal places)​  ​  ​(9.5, –4.1), (–3.3, 8.7)  ​   |  |  |  | | --- | --- | --- | |  | a. | 8.7 | |  | b. | 9.5 | |  | c. | 327.68 | |  | d. | 3.3 | |  | e. | 18.10 |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | P.6.38 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/21/2014 2:22 AM | |

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| 29. Show that the points form the vertices of the indicated polygon.  ​  Right triangle: (6, 2), (3, 4), (–3, –5)  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.43 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/21/2014 2:38 AM | |

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| 30. Given the points (–6, –8) and (4, –6). Find a third point so that the three points form the vertices of a right triangle.  ​   |  |  |  | | --- | --- | --- | |  | a. | (-16, 4) | |  | b. | (-11, 17) | |  | c. | (-6, -9) | |  | d. | (5, -6) | |  | e. | (4, 6) |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | P.6.43 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/12/2014 5:48 AM | |

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| 31. Show that the points form the vertices of the indicated polygon.  ​  Right triangle: (3, 5), (5, 6), (6, 4)  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | P.6.44 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/21/2014 2:50 AM | |

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| 32. Given points(–1,1),  and (–11,–9)  form the vertices of the base of a triangle, find a third point so that the three points form the vertices of an isosceles triangle.  ​   |  |  |  | | --- | --- | --- | |  | a. | (3, 1) | |  | b. | (4, -15) | |  | c. | ​(-15, -13) | |  | d. | ​(3, 5) | |  | e. | ​(-6, -4) |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | P.6.45 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 5/14/2015 4:01 AM | |

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| 33. Show that the points form the vertices of the indicated polygon.  ​  Isosceles triangle: (7, –6), (9, 8), (–5, 6)  ​   |  |  |  | | --- | --- | --- | |  | a. | Distances between the points: | |  | b. | Distances between the points: | |  | c. | Distances between the points: | |  | d. | Distances between the points: | |  | e. | Distances between the points: |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | P.6.45 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 10/21/2014 4:14 AM | |

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| 34. Show that the points form the vertices of the indicated polygon.  ​  Isosceles triangle: (7, 1), (5, 4), (2, 6)  ​   |  |  |  | | --- | --- | --- | |  | a. | Distances between the points: | |  | b. | Distances between the points: | |  | c. | Distances between the points: | |  | d. | Distances between the points: | |  | e. | Distances between the points: |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | P.6.46 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/12/2014 7:00 AM | |

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| 35. Plot the following points and find the distance between the points.  ​  (11, 3), (5, 3)  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​    Distance: 8 | b. | ​  Distance: 6 | |  | c. | ​    Distance: 9 | d. | ​  Distance: 10 | |  | e. | ​  Distance: 7 |  |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | P.6.47 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/13/2014 8:59 AM | |

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| 36. Plot the following points and find the midpoint of the line segment joining the points.  ​  (9, 6), (5, 6)  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​  Midpoint: (7, 6) | b. | ​  Midpoint:  (7, 6) | |  | c. | ​  ​  Midpoint: (7, 6) | d. | ​  Midpoint:  (7, 6) | |  | e. | ​    Midpoint:  (7, 6) |  |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | P.6.48 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 12:24 AM | |

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| 37. Find the midpoint between the two points (–19, 9) and (11, 13).  ​   |  |  |  | | --- | --- | --- | |  | a. | (-15, 2) | |  | b. | (-15, 11) | |  | c. | (-8, 11) | |  | d. | (-4, 2) | |  | e. | (-4, 11) |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | P.6.49c | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/13/2014 6:54 AM | |

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| 38. Plot the following points and find the distance between the points.  ​  (–5, 8), (7, 2)  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​  Distance: | b. | ​  Distance: | |  | c. | Distance: | d. | ​  Distance: | |  | e. | ​  Distance: |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.51 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/13/2014 8:34 AM | |

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| 39. Plot the following points and find the distance between the points.  ​  (3, 8), (8, 3)  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​  Distance: | b. | Distance: | |  | c. | ​  Distance: | d. | ​  Distance: | |  | e. | ​  Distance: |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | P.6.52 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 12:32 AM | |

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| 40. An airplane flies from one city in a straight line to another city, which is 360 kilometers north and 150 kilometers west of first city. How far does the plane fly?  ​   |  |  |  | | --- | --- | --- | |  | a. | 150 km | |  | b. | 390 km | |  | c. | 255 km | |  | d. | 360 km | |  | e. | 350 km |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | P.6.57 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 1:47 AM | |

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| 41. A soccer player passes the ball from a point that is 13 yards from the end line and 16 yards from the sideline. The pass is received by a teammate who is 48 yards from the same end line and 39 yards from the same sideline, as shown in the figure. How long is the pass?  ​  (*a*, *b*): (13, 16)  (*c*, *d*): (48, 39)  ​   |  |  |  | | --- | --- | --- | |  | a. | ≈ 44 yd | |  | b. | ≈ 43 yd | |  | c. | ≈ 45 yd | |  | d. | ≈ 42 yd | |  | e. | ≈ 46 yd |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.58 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 1:04 AM | |

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| 42. A quarterback is standing in the middle of the field 41 yards from his goal line. He passes the ball to a player 8 yards to his left on the 26 yard line. How long was the pass?  ​   |  |  |  | | --- | --- | --- | |  | a. | 42 yards | |  | b. | 15 yards | |  | c. | 27 yards | |  | d. | 17 yards | |  | e. | 67 yards |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.58 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 1:21 AM | |

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| 43. Use the Midpoint Formula to estimate the sales of Big Lots, Inc. in 2005, given the sales in 2003 and 2007. Assume that the sales followed a linear pattern.  Big Lots   |  |  | | --- | --- | | Year | Sales (in millions) | | 2003 | 4174 | | 2007 | 4700 |  |  |  |  | | --- | --- | --- | |  | a. | $4700 million | |  | b. | $4457 million | |  | c. | $4174 million | |  | d. | $4437 million | |  | e. | $4447 million |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.59 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 1:24 AM | |

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| 44. Use the Midpoint Formula to estimate the sales of  Dollar Tree Stores, Inc. in 2005, given the sales in 2003 and 2007. Assume that the sales followed a linear pattern.  Dollar tree   |  |  | | --- | --- | | Year | Sales (in millions) | | 2003 | 2200 | | 2007 | 4283 |  |  |  |  | | --- | --- | --- | |  | a. | $3241.5 million | |  | b. | $3251.5 million | |  | c. | $3246.5 million | |  | d. | $3256.5 million | |  | e. | $3261.5 million |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | P.6.60 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 1:31 AM | |

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| 45. Find the coordinates of the vertices of the polygon in its new position.  ​  Original coordinates of vertices: (–5, –3), (–3, 6), (–5, –4), (–4, –7)  Shift: three units to the right, four units upward  ​   |  |  |  | | --- | --- | --- | |  | a. | (–2, 1), (0, 10), (–2, 0), (–1, –3) | |  | b. | (1, 1), (0, 10), (–2, 0), (–1, –3) | |  | c. | (2, 1), (0, 10), (–2, 0), (–1, –3) | |  | d. | (3, 1), (0, 10), (–2, 0), (–1, –3) | |  | e. | (4, 1), (0, 10), (–2, 0), (–1, –3) |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | P.6.63 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 2:36 AM | |

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| 46. Find the coordinates of the vertices of the polygon in its new position.  ​  Original coordinates of vertices: (6, 5), (3, 2), (4, 2), (5, 2)​  Shift: six units downward, two units to the left  ​   |  |  |  | | --- | --- | --- | |  | a. | (13, –1), (1, –4), (2, –4), (3, –4) | |  | b. | (10, –1), (1, –4), (2, –4), (3, –4) | |  | c. | (12, –1), (1, –4), (2, –4), (3, –4) | |  | d. | (4, –1), (1, –4), (2, –4), (3, –4) | |  | e. | (11, –1), (1, –4), (2, –4), (3, –4) |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.64 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 2:48 AM | |

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| 47. Use the graph, which shows the average retail prices of 1 gallon of whole milk from 1996 through 2007.  ​  ​  Approximate the lowest price of a gallon of whole milk shown in the graph. When did this occur?  ​   |  |  |  | | --- | --- | --- | |  | a. | $2.97 / gal; 2001 | |  | b. | $3.17 / gal; 2002 | |  | c. | $3.07 / gal; 2003 | |  | d. | $2.67 / gal; 1997 | |  | e. | $3.87 / gal; 2004 |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *REFERENCES:* | P.6.65 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 2:55 AM | |

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| 48. Use the graph, which shows the average retail prices of 1 gallon of whole milk from 1996 through 2007.  ​  ​  Approximate the percent change in the price of milk from the price in 2000 to the highest price shown in the graph.  ​   |  |  |  | | --- | --- | --- | |  | a. | About 48% | |  | b. | About 58% | |  | c. | About 43% | |  | d. | About 53% | |  | e. | About 38% |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *REFERENCES:* | P.6.66 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 5/13/2015 9:12 AM | |

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| 49. The graph shows the numbers of performers who were elected to the Rock and Roll Hall of Fame from 1991 through 2008. Describe any trends in the data. From these trends, predict the number of performers elected in 2009.     |  |  |  | | --- | --- | --- | |  | a. | The number of performers elected in last four years in the graph seems to be nearly steady except for the first few years therefore five performers will be elected in 2009. | |  | b. | The number of performers elected in last four years in the graph seems to be nearly steady except for the first few years therefore seven performers will be elected in 2009. | |  | c. | The number of performers elected in last four years in the graph seems to be nearly steady except for the first few years therefore eight performers will be elected in 2009. | |  | d. | The number of performers elected in last four years in the graph seems to be nearly steady except for the first few years therefore six performers will be elected in 2009. | |  | e. | The number of performers elected in last four years in the graph seems to be nearly steady except for the first few years therefore nine performers will be elected in 2009. |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | P.6.69 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 3:22 AM | |

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| 50. The Coca-Cola Company had sales of $19,999 million in 1999 and $29,511 million in 2007. Use the Midpoint Formula to estimate the sales in 2003. Assume that the sales followed a linear pattern.  ​   |  |  |  | | --- | --- | --- | |  | a. | $24,905 million | |  | b. | $24,855 million | |  | c. | $24,755 million | |  | d. | $24,955 million | |  | e. | $24,805 million |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | P.6.71 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 5/13/2015 9:11 AM | |

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| 51. Determine the quadrant(s) in which (*x*, *y*) is located so that the condition is satisfied.  *x* = 2 and *y* < –8   |  |  |  | | --- | --- | --- | |  | a. | quadrant II | |  | b. | quadrant IV | |  | c. | quadrants I and IV | |  | d. | quadrants II and IV | |  | e. | quadrants III and IV |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *REFERENCES:* | 11-20 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 6/10/2014 4:15 PM | |

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| 52. ​Find the distance between the points. Round to the nearest hundredth, if necessary.  ​  (–8, –8), (–1, 9)  ​   |  |  |  | | --- | --- | --- | |  | a. | ​19.24 | |  | b. | ​7.07 | |  | c. | ​18.38 | |  | d. | ​10 | |  | e. | ​9.06 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *REFERENCES:* | 23-32 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 11/14/2014 3:39 AM | | *DATE MODIFIED:* | 11/14/2014 3:49 AM | |

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| 53. )Given points(5,–11),  and (11,–5)  form the vertices of the base of a triangle, find a third point so that the three points form the vertices of an isosceles triangle.  ​   |  |  |  | | --- | --- | --- | |  | a. | (8, -8) | |  | b. | (11, -12) | |  | c. | ​(6, -10) | |  | d. | (10, -6) | |  | e. | (10, -11) |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *REFERENCES:* | 37-44 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 5/14/2015 3:38 AM | |

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| 54. Find the coordinates of the point C shown below.  ​  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | (–2, 3) | b. | (3, -2) | |  | c. | (–4, –5) | d. | (-5, -4) | |  | e. | (–5, –2) |  |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 4:18 AM | |

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| 55. Plot the point (–3, 1) on the Cartesian plane.  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. |  | b. |  | |  | c. |  | d. |  | |  | e. |  |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 11/14/2014 4:45 AM | |

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| 56. Find the coordinates of the point that is located 8 units below the *x*-axis and 3 units to the left of the *y*-axis.  ​  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | (–8, –3) | b. | (8, –3) | |  | c. | (–3, 8) | d. | (3, –8) | |  | e. | (–3, –8) |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/4/2014 11:45 PM | |

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| 57. Find the distance between the points (4, –3) and (11, –3).  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 10 | b. |  | |  | c. | 3 | d. |  | |  | e. | 7 |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/4/2014 11:55 PM | |

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| 58. Find the distance between the points (4, –5) and (9, 0).  Round the answer to the nearest tenth.  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 7.1 | b. | 7.4 | |  | c. | 7.3 | d. | 7.5 | |  | e. | 6.9 |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 12:04 AM | |

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| 59. Find the midpoint of the line segment joining the points (3, 6) and (9, –4).  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | (6, –10) | b. | (12, 2) | |  | c. | (6, 1) | d. | (–3, 5) | |  | e. | (3, –5) |  |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 12:13 AM | |

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| 60. Find the midpoint of the line segment joining the points (5.5, 4.3) and (13.6, –1.2).  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | (19.1, 3.1) | b. | (8.1, –5.5) | |  | c. | (–4.05, 2.75) | d. | (9.55, 1.55) | |  | e. | (4.05, –2.75) |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 12:19 AM | |

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| 61. Let *M* denote the midpoint of the line segment joining (4, 3) and (11, 6).  Find the distance from *M* to the point (–6, –5).  Round the answer to the nearest tenth.  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | 16.7 | b. | 16.1 | |  | c. | 16.5 | d. | 15.9 | |  | e. | 16.2 |  |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 12:25 AM | |

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| 62. Let *M* denote the midpoint of the line segment joining (2, 3) and (7, 6).  Find the midpoint between *M* and (–6, –4).  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | (2, 0.25) | b. | (–0.75, 0.25) | |  | c. | (–2, –0.5) | d. | (4.5, 4.5) | |  | e. | (0.5, 1) |  |  |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 3:13 AM | |

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| 63. Let *S* represent the midpoint between (5, 3) and (–5, –7).  Let *T* represent the midpoint between (5, 3) and *S*.  Find the coordinates of *T*.  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | (–2.5, –4.5) | b. | (0, –2) | |  | c. | (0, 0.5) | d. | (2.5, 0.5) | |  | e. | (2.5, –2) |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 3:36 AM | |

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| 64. Write the standard form of the equation of the circle with center (5, –7) and radius 5.  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. |  | |  | c. |  | d. |  | |  | e. |  |  |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 4:03 AM | |

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| 65. Write the standard form of the equation of the circle with center (3, –2) and solution point (–2, 3).  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. |  | b. |  | |  | c. |  | d. |  | |  | e. |  |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 4:09 AM | |

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| 66. Write the standard form of the equation of the circle which has (–5, 4) and (–1, 8) as endpoints of a diameter.  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. |  | |  | c. |  | d. |  | |  | e. |  |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 4:25 AM | |

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| 67. Write the standard form of the equation of the circle tangent to the *y*-axis and with center (–3, –6).  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. |  | |  | c. |  | d. |  | |  | e. |  |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 4:38 AM | |

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| 68. Find the center and radius of the circle with equation .  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | Center: (7, 2)  Radius: 5 | b. | Center: (–7, 2)  Radius: 25 | |  | c. | Center: (7, –2)  Radius: 25 | d. | Center: (7, –2)  Radius: 5 | |  | e. | Center: (–7, 2)  Radius: 5 |  |  |  |  |  | | --- | --- | | *ANSWER:* | e | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 4:42 AM | |

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| 69. The point *A* has coordinates (–3, 5).  If *A* is moved 3 units upward 6 units to the left, what are the new coordinates of *A* ?  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | (0, –1) | b. | (3, 8) | |  | c. | (0, 11) | d. | (–9, 8) | |  | e. | (3, 2) |  |  |  |  |  | | --- | --- | | *ANSWER:* | d | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multi-Mode (Multiple choice) | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 6/10/2014 4:15 PM | | *DATE MODIFIED:* | 12/5/2014 4:47 AM | |