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| 1. Copy the points (–2, 5), (3, –5), (–4, –1), (4, 0), (2, –3) in the Cartesian plane.  ​   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​ | b. | ​ | |  | c. | ​ | d. | ​ | |  | e. | ​ |  |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/21/2016 10:01 AM | | *DATE MODIFIED:* | 7/13/2017 3:56 AM | |

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| 2. Find the distance between the points (–2, –5) and (–7, –10). Round your answer to the nearest hundredth if necessary.  ​   |  |  |  | | --- | --- | --- | |  | a. | 17.49 | |  | b. | 0 | |  | c. | 7.07 | |  | d. | 3.16 | |  | e. | 50 |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/21/2016 10:01 AM | | *DATE MODIFIED:* | 7/13/2017 4:08 AM | |

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| 3. Find the midpoint of the line segment joining between the points (7, –1) and (2, –6). Round your answer to the nearest hundredth if necessary.  ​   |  |  |  | | --- | --- | --- | |  | a. | (4, 2.5) | |  | b. | (4.5, –3.5) | |  | c. | (14, 6) | |  | d. | (3, –2) | |  | e. | none of these choices |  |  |  | | --- | --- | | *ANSWER:* | b | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/21/2016 10:01 AM | | *DATE MODIFIED:* | 7/13/2017 4:20 AM | |

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| 4. Find the length of each side of the right triangle from the following figure.    ​   |  |  |  | | --- | --- | --- | |  | a. | , , | |  | b. | , , | |  | c. | , , | |  | d. | , , | |  | e. | , , |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/21/2016 10:01 AM | | *DATE MODIFIED:* | 7/13/2017 4:45 AM | |

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| 5. Find *x* such that the distance between the points  and   is 5.  ​   |  |  |  | | --- | --- | --- | |  | a. |  | |  | b. |  | |  | c. |  | |  | d. |  | |  | e. |  |  |  |  | | --- | --- | | *ANSWER:* | c | | *POINTS:* | 1 | | *DIFFICULTY:* | Medium | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/21/2016 10:01 AM | | *DATE MODIFIED:* | 4/5/2017 6:17 AM | |

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| 6. Assume that the number (in millions) of cellular telephone subscribers in the United States from 1996 through 2005 is given in the following table. Use a graphing utility to graph a line plot of the given data. Describe any trends that appear within the last four years.  ​   |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Year | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | | Subscribers | 56 | 62.3 | 71.5 | 79.7 | 97.4 | 117.9 | 136.5 | 158.4 | 195 | 214.1 |      |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a. | ​    The number of subscribers appears to be increasing. | b. | ​    The number of subscribers appears to be decreasing. | |  | c. | ​    The number of subscribers appears to be constant. | d. | ​    The number of subscribers appears to be decreasing | |  | e. | ​    The number of subscribers appears to be increasing. |  |  |  |  |  | | --- | --- | | *ANSWER:* | a | | *POINTS:* | 1 | | *DIFFICULTY:* | Easy | | *QUESTION TYPE:* | Multiple Choice | | *HAS VARIABLES:* | True | | *DATE CREATED:* | 1/21/2016 10:01 AM | | *DATE MODIFIED:* | 3/31/2017 8:48 AM | |