

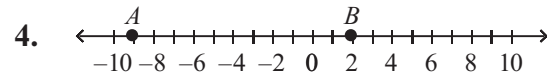
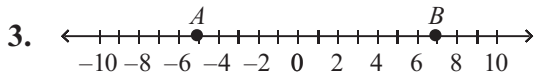
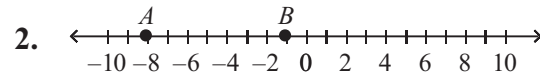
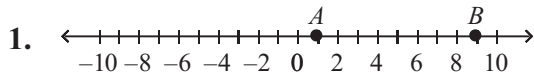
Independent Practice

10.3

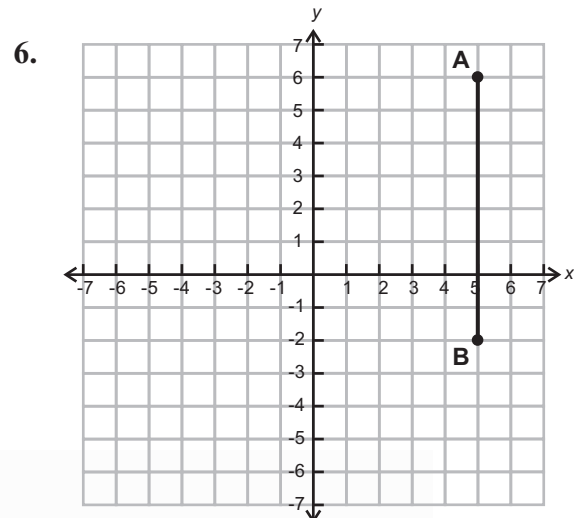
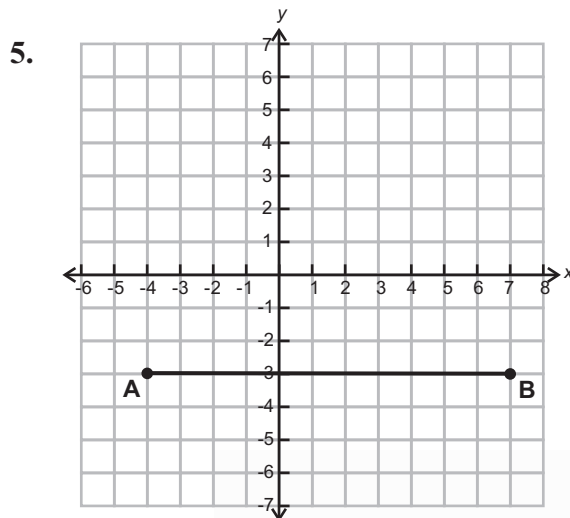
NAME _____

Module 10 Coordinate Geometry and Spatial Visualization
Lesson 3 Coordinate Geometry

Find the distance from point A to point B . Then, find the coordinate of the midpoint of \overline{AB} .



Find the distance from point A to point B .

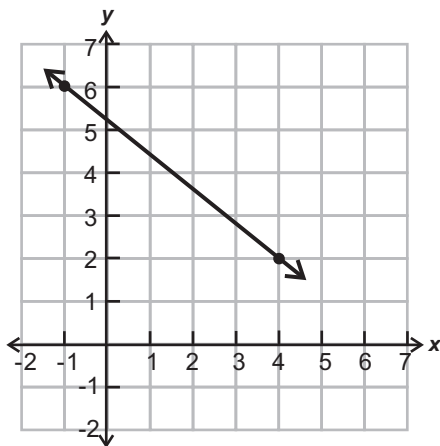


7. Find the distance from $(-3, 7)$ to $(9, 2)$.

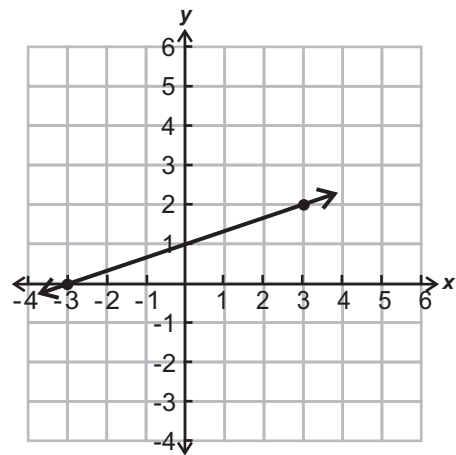
8. Find the distance from $(-2, -4)$ to $(6, -1)$.

Find the slope.

9.



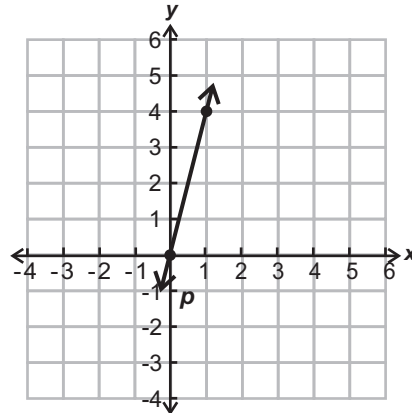
10.



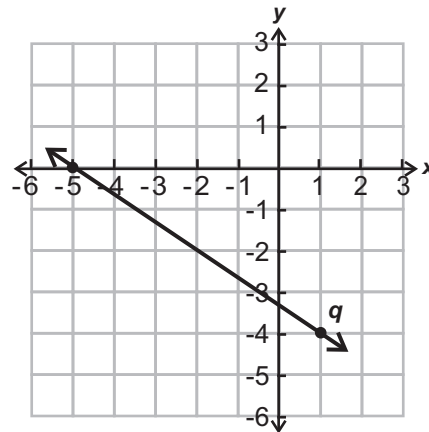
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Module 10 **Coordinate Geometry and Spatial Visualization**
Lesson 3 **Coordinate Geometry**

11. Find the slope of any line parallel to line p .



12. Find the slope of any line perpendicular to line q .



Journal

1. What does it mean for a point to be the midpoint of a segment? Explain how to find the coordinate of the midpoint of a segment on a number line when you know the coordinates of the endpoints of the segment.
2. Describe what you can tell about the slope of a line just by looking at the line.
3. Which is steeper: a line with a slope of $\frac{1}{2}$ or a line with a slope of $\frac{1}{8}$? Explain.
4. Which is steeper: a line with a slope of $\frac{1}{2}$ or a line with a slope of $-\frac{1}{2}$? Explain.

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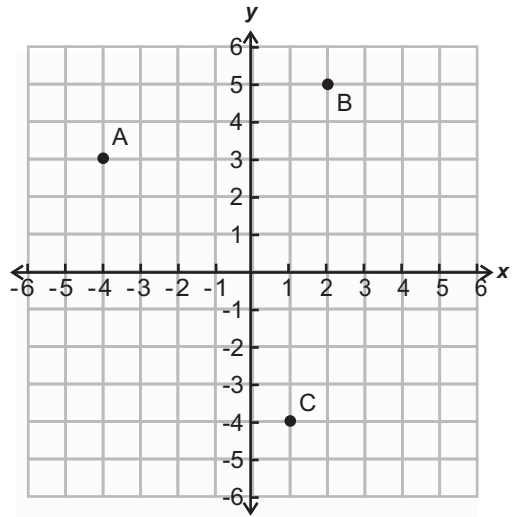
Cumulative Review

$$\triangle APE \cong \triangle BUG$$

1. Which angle corresponds to $\angle P$?
2. Which segment corresponds to \overline{AE} ?

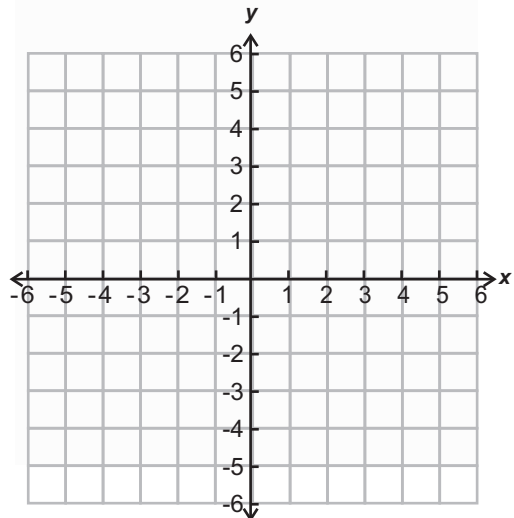
Write the ordered pair representing each point.

3. A
4. B
5. C



Plot and label each point.

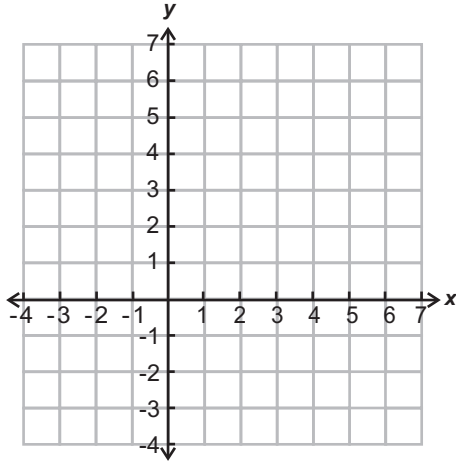
6. $D(0, -2)$
7. $E(-3, -4)$
8. $F(1, -3)$



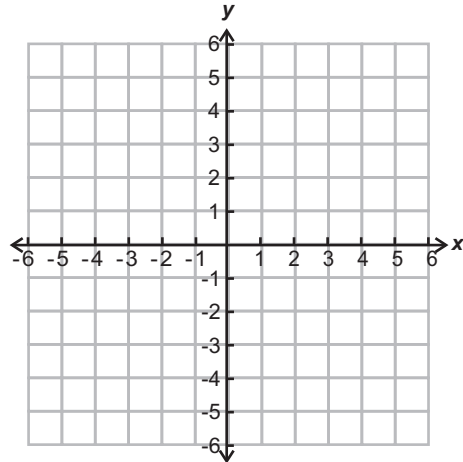
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Module 10 **Coordinate Geometry and Spatial Visualization**
Lesson 3 **Coordinate Geometry**

9. Graph the line that contains $(-3, -1)$ and $(6, -2)$.



10. Graph and classify the triangle with vertices at the origin, $(2, 2)$, and $(5, 0)$.



Additional Work Area