

Challenge Problems

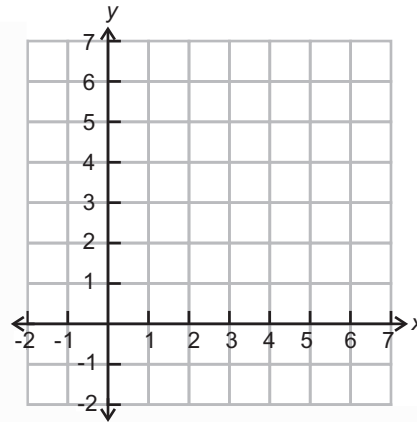
10.3

NAME _____

Module 10 Coordinate Geometry and Spatial Visualization
Lesson 3 Coordinate Geometry

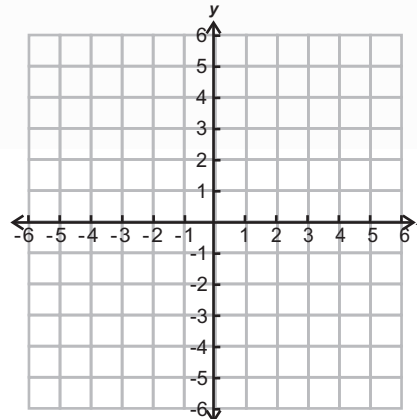
Set 1

- 1 Use the Pythagorean Theorem to find the distance from the origin to $(4, 6)$. Give the answer in both exact form and approximate form.

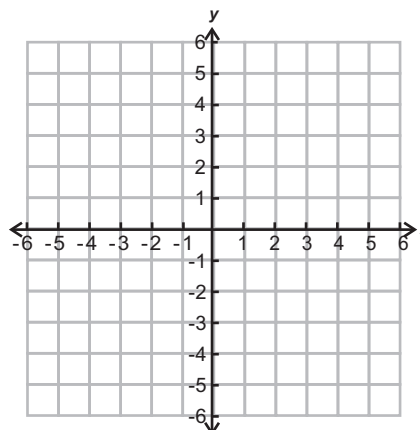


Set 2

- 1 A line with a slope of zero passes through $(4, -2)$ and $(4, y)$. What is the value of y ? Explain how you know.

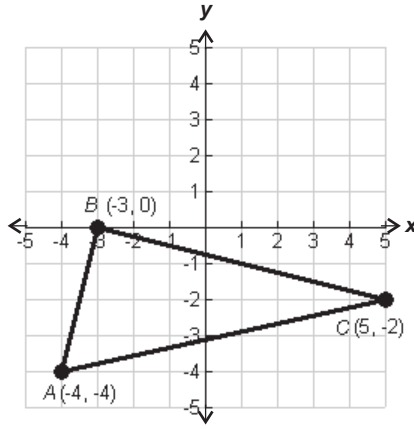


- 2 A line passes through the point $(-2, -3)$ and has a slope of one. Name two other points on the line. Explain how you found them.



Set 3

- 1 Use slope to show that triangle ABC is a right triangle.



Additional Work Area