

Lesson Notes

10.2

NAME _____

Module 10 Coordinate Geometry and Spatial Visualization

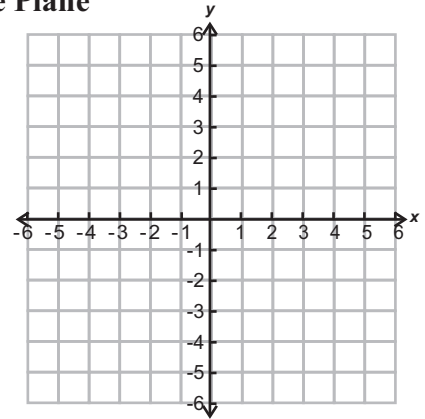
Lesson 2 Classifying Geometric Figures Using Points

Lesson Objective

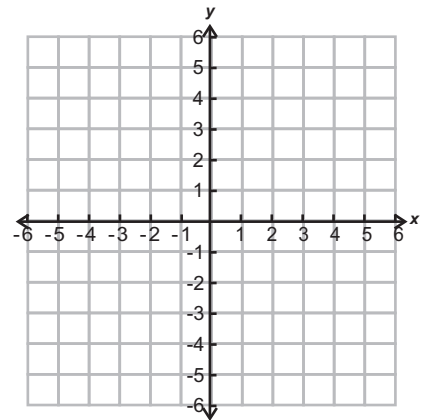
- Plot points that form the vertices of a geometric figure and draw, identify, and classify the figure.

Subtopic 1 One-Dimensional Figures on the Coordinate Plane

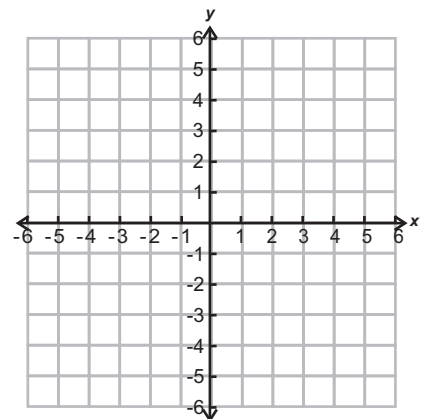
- 1** Graph the line segment with endpoints at $(-2, 0)$ and $(4, 3)$.



- 2** Graph the line that passes through the points $(5, 0)$ and $(-2, -3)$.

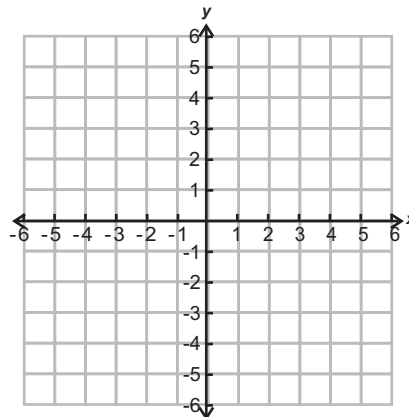


- 3** Graph the ray that has its endpoint at $(2, 5)$ and passes through $(-1, 2)$.

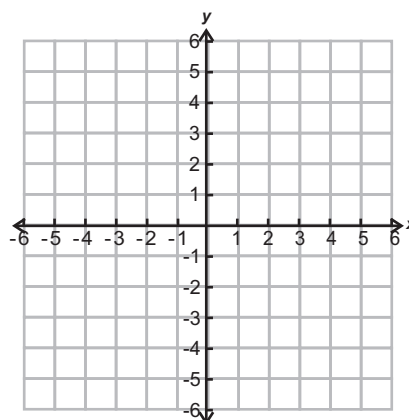


Subtopic 2**Two-Dimensional Figures on the Coordinate Plane**

- 4 Graph the polygon with vertices $(-3, 2)$, $(-1, 5)$, $(3, 0)$, $(0, -4)$, and $(-2, -2)$. Then, classify the polygon.



- 5 Graph and classify the polygon with vertices $(-4, -2)$, $(-3, 2)$, $(1, 2)$, and $(6, -2)$. Give all the names that apply to the polygon.



- 6 Graph the triangle with vertices at $(-2, 4)$, $(-2, -3)$, and $(4, -3)$. Then, classify the triangle by the lengths of its sides and by its angle measures.

