## NAME

Module 10Coordinate Geometry and Spatial VisualizationLesson 2Classifying Geometric Figures Using Points





A line segment has one endpoint at (-4, 3). It passes through the point (1, 3), and its other endpoint is at (7, y). What is the value of y? Explain how you know.



Point *A* is at (2, 1), and point *B* is at (4, 2). Graph  $\overrightarrow{AB}$ . Does  $\overrightarrow{AB}$  pass through the origin? Graph  $\overrightarrow{BA}$ . Does  $\overrightarrow{BA}$  pass through the origin?





The vertices of an isosceles triangle are (-4, 1), (2, 1), and (x, 5). What is the value of *x*? Explain how you know.



A parallelogram has vertices at (0, 0), (4, 0), and (1, 5). What are the possible coordinates for the fourth vertex? (Hint: There are three possible vertices.)

## **Additional Work Area**

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