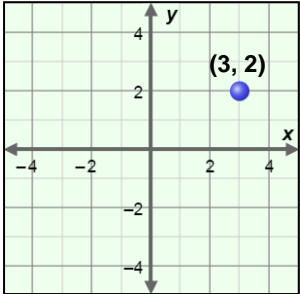
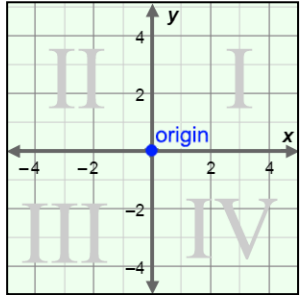




Vocabulary: Points in the Coordinate Plane



Vocabulary

- **Coordinate plane** – the plane defined by a pair of perpendicular number lines, or axes, that intersect at a point called the *origin*.
 - **Coordinates** – a set of numbers that names the location of a point.
 - In the two-dimensional coordinate plane, it takes two numbers (x, y) to specify a location.
 - The x -coordinate gives the location of the point left or right of the origin.
 - The y -coordinate gives the location of the point above or below the origin.
 - For example, the coordinates of the point shown to the right are $(3, 2)$.
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- **Ordered pair** – two numbers or variables written in a certain order.
 - (x, y) coordinates, such as $(3, 2)$, are examples of ordered pairs.
 - **Origin** – the point in a coordinate plane where the x - and y -axes intersect.
 - The coordinates of the origin are $(0, 0)$.
 - The origin is the point labeled on the graph to the right.
 - **Quadrant** – one of four regions defined by the x - and y -axes of the coordinate plane.
 - The four quadrants, labeled in the graph above, are numbered with Roman numerals: I, II, III, and IV.
 - **Reflect** – to form a “mirror image” by flipping a point or object across a line.
 - In the image to the right, the point on the left has been reflected over the y -axis to form the image on the right.
 - **x -axis** – a horizontal number line that passes through the origin of the coordinate plane.
 - The x -axis measures position left or right of the origin.
 - **y -axis** – a vertical number line that passes through the origin of the coordinate plane.
 - The y -axis measures position above or below the origin.
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