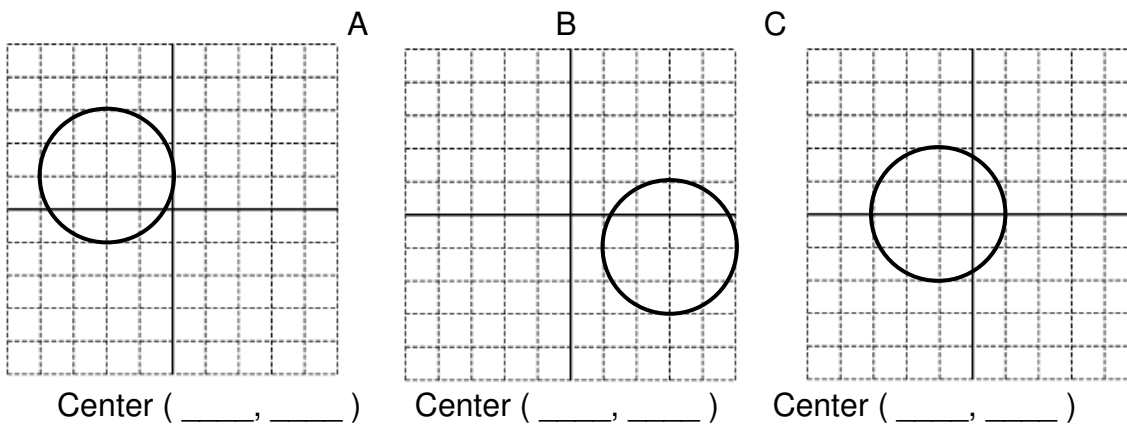


Figures on a Coordinate Plane

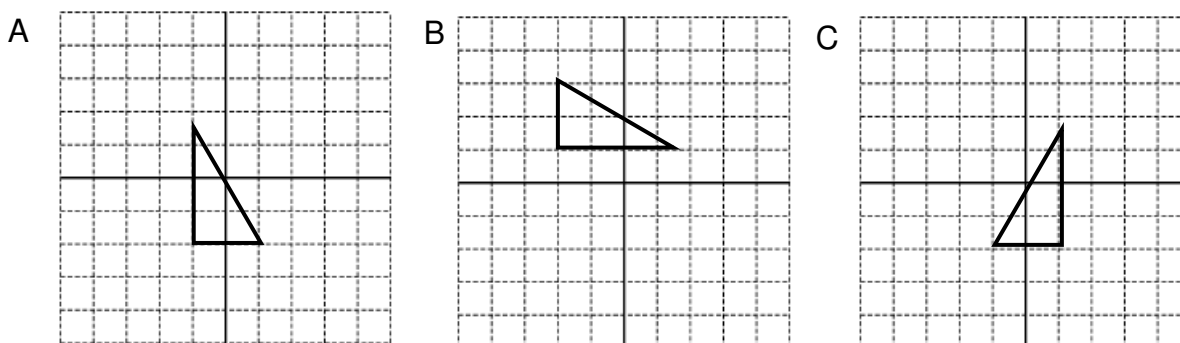
For problems 1 through 3, do the following:

- Label the x -axis, the y -axis and the 4 quadrants.
- All the increments on each axis are units of 1.

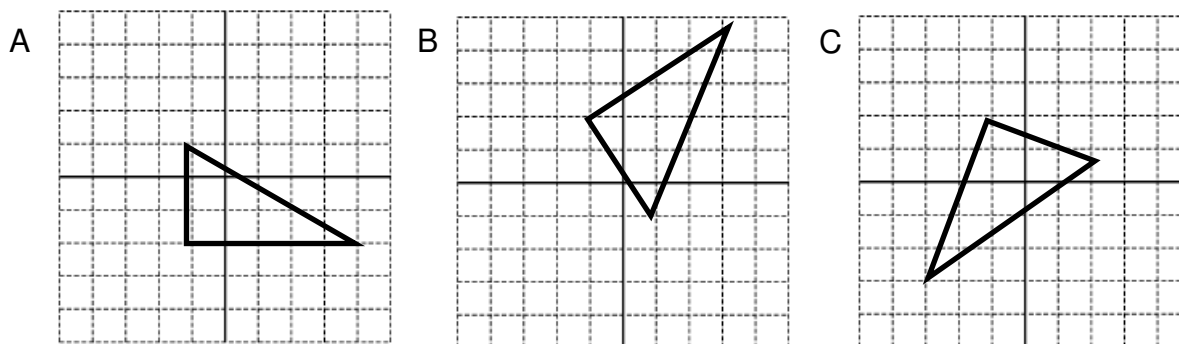
1. A circle with a radius of 2 units is shown on each coordinate plane. Label the center of each circle as point O and write the coordinates of the center for each circle.



2. Which coordinate plane shows a right triangle with one vertex in Quadrant I and another vertex as $(1, -2)$?



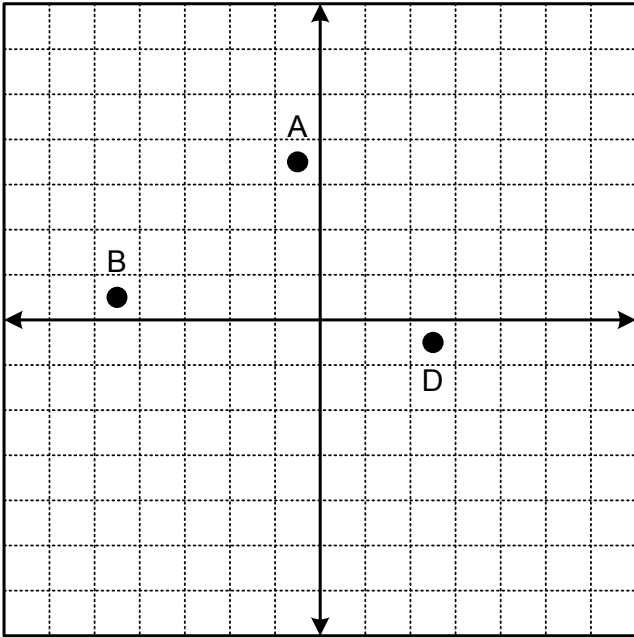
3. Which coordinate plane shows a right triangle with one vertex in Quadrant IV and another vertex at $(-1, 2)$?



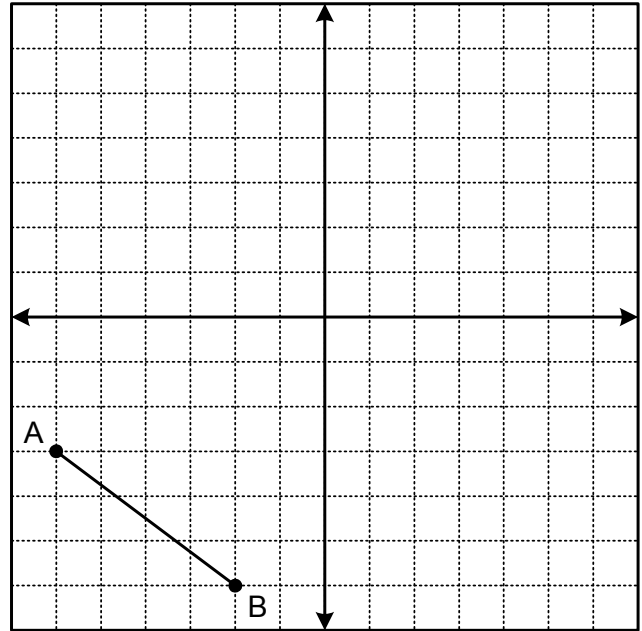
Figures on a Coordinate Plane

For problems 4 through 7, label the axis. The increment on each axis is 1 unit.

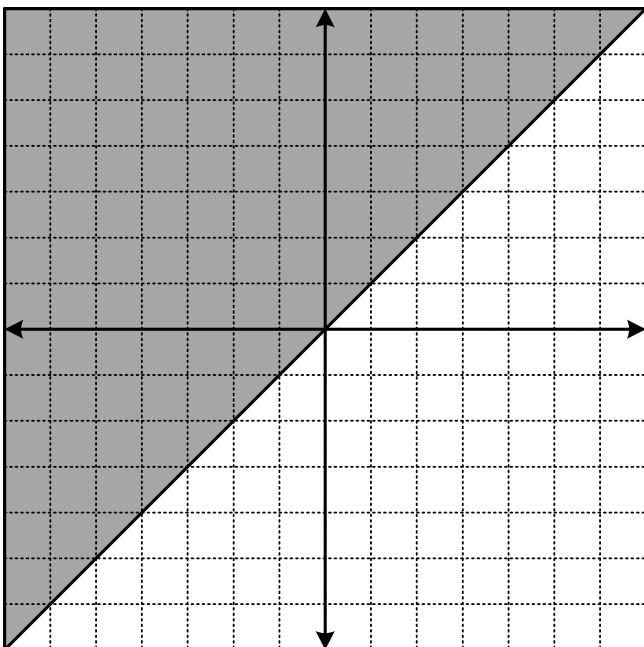
4. Plot the missing point and connect the points to create square ABCD. Write the coordinates of each vertex of the square.



5. Determine the coordinates of a point halfway between points A and B, and label it point M. Reflect point M across the y-axis. Name this reflection point as point C, and label the coordinates.



6. Write the coordinates of a point that is NOT in the shaded region of the coordinate plane.



7. Plot the point in Quadrant II and connect the points to create parallelogram ABCD. Write the coordinates of each vertex of the parallelogram.

