

POLYGONS ON THE COORDINATE PLANE ACTIVITY

Use the clues below to plot each polygon on the coordinate plane.
Then, answer the questions that follow.

CLUE 1 A rectangle has one vertex at $(-9, 4)$ and another vertex at $(-9, -2)$. The rectangle has an area of 18 units^2 . Plot the rectangle on the coordinate plane. What are the coordinates of the other two vertices?

CLUE 2 A triangle has vertices at $(3, -2)$, $(3, -4)$, and $(5, -4)$. Plot the triangle on the coordinate plane. Classify the triangle based on its angles.

CLUE 3 A square has one vertex at $(-1, 9)$. The perimeter of the square is 40 units. Plot the square on the coordinate plane. What are the coordinates of the other three vertices?

CLUE 4 A triangle has vertices at $(-8, -8)$, $(-3, -6)$, and $(2, -8)$. Plot the triangle on the coordinate plane. What is the area of the triangle?

