Name _____   Date _____

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 units². Plot the rectangle on the coordinate plane. What are the coordinates of the other two vertices?

(−6, 4)   (−6, −2)

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.

right triangle

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?

(−1, −1)   (9, 9)   (9, −1)

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?

10 units²