

Name: _____

Date: 3/21/2022

COORDINATE PLANE

NUMBER SYSTEM

VOCABULARY

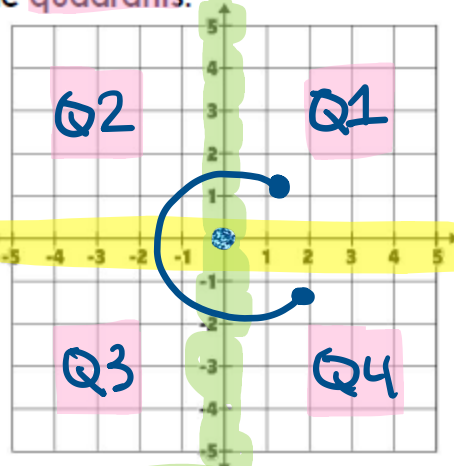
- **x-axis:** horizontal number line in the coordinate system.
- **y-axis:** vertical number line in the coordinate system.
- **Origin:** Point that is located at (0, 0)

GUIDED NOTES:

1. Points are located in reference to the x-axis and the y-axis.
2. The x-axis and y-axis separate the coordinate plane into four regions called QUADRANTS.
3. The ORIGIN is located at (0,0), where the two axes intersect.
4. Ordered pairs are always named (x, y).
5. The x coordinate tells you how far to go to the RIGHT (positive) or the LEFT (negative).
6. The y coordinate tells you how far to go UP (positive) or DOWN (negative).

GUIDED PRACTICE:

Label the x-axis, y-axis, origin and the quadrants.



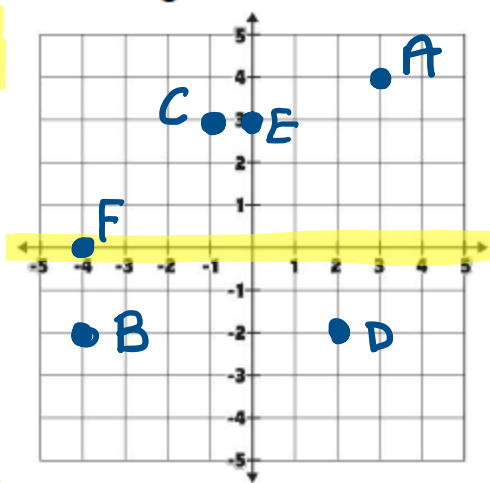
Graph each point on the grid.

+ = Right
- = Left

Graph:

- A (3,4)
- B (-4,-2)
- C (-1,3)
- D (2,-2)
- E (0,3)
- F (-4,0)

+ = UP
- = down

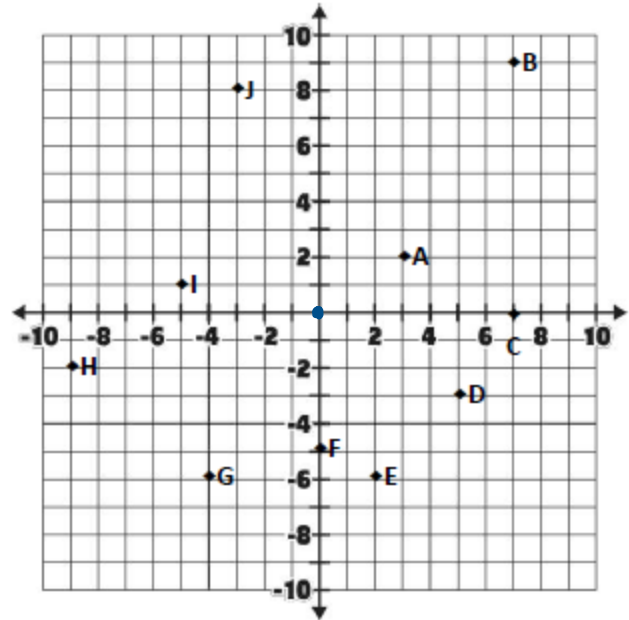


COORDINATE PLANE

GUIDED PRACTICE:

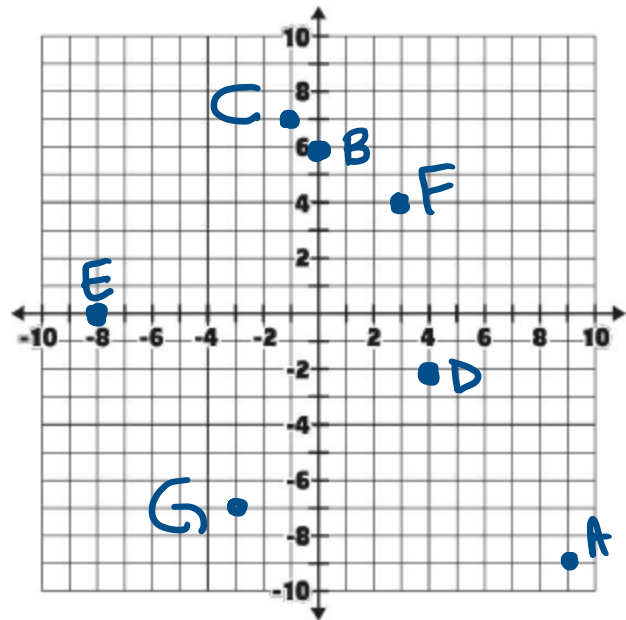
Write the coordinate of each point.

- A (3, 2)
- B (7, 9)
- C (7, 0)
- D (5, -3)
- E (2, -6)
- F (0, -5)
- G (-4, -6)
- H (-9, -2)
- I (-5, 1)
- J (-3, 8)



Graph and label each point.

- A (9, -9)
- B (0, 6)
- C (-1, 7)
- D (4, -2)
- E (-8, 0)
- F (3, 4)
- G (-3, -7)



Name: _____

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POLYGONS IN THE COORDINATE PLANE

GEOMETRY

VOCABULARY

- x-axis: horizontal number line in the coordinate system.
- y-axis: vertical number line in the coordinate system.
- Origin: Point that is located at (0, 0)

GUIDED NOTES:

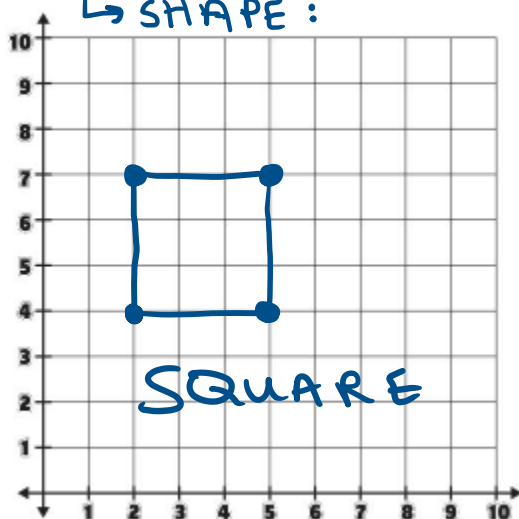
1. Points are located in reference to the x-axis and the y-axis.
2. Ordered pairs are always named (x, y)
3. The x coordinate tells you how far to go RIGHT (+) or LEFT (-)
4. The y coordinate tells you how far to go UP (+) or DOWN (-)
5. The x-axis and y-axis separate the coordinate plane into four regions called QUADRANTS.
6. Ordered pairs can be used as vertices of polygons.
7. To draw a polygon, plot the points and connect them.
8. Be sure to connect the points in order.

CORNER of a shape

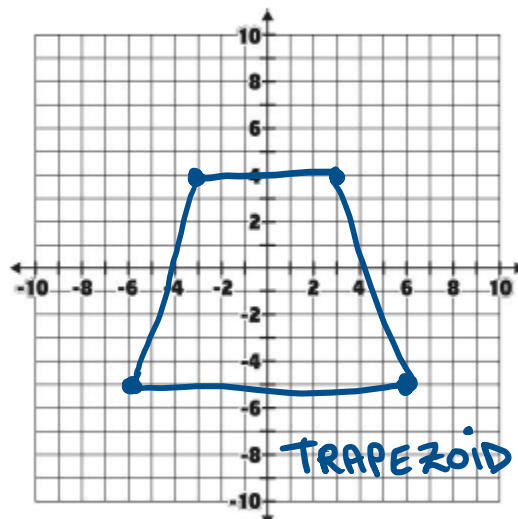
GUIDED PRACTICE:

Plot the points in the coordinate plane below. Connect them in order and name the polygon. A (2,4) B (2,7) C (5,7) D (5, 4)

↳ SHAPE :



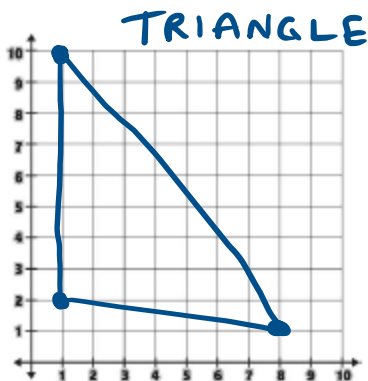
Plot the points in the coordinate plane below. Connect them in order and name the polygon. E (-3,4) F(3,4) G(6,-5) H(-6,-5)



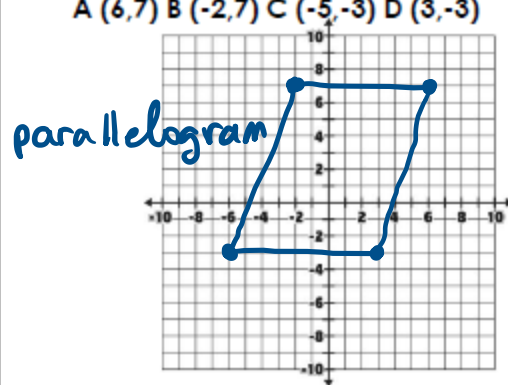
POLYGONS IN THE COORDINATE PLANE

PRACTICE PROBLEMS:

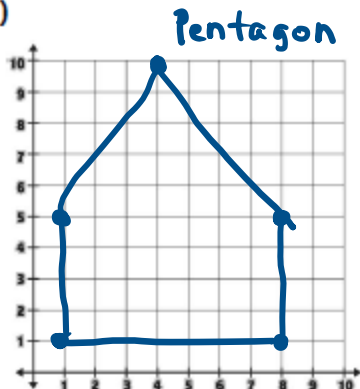
- 1** Plot the points in the coordinate plane below. Connect them in order and name the polygon. A (1,2) B (1,10) C (8,1)



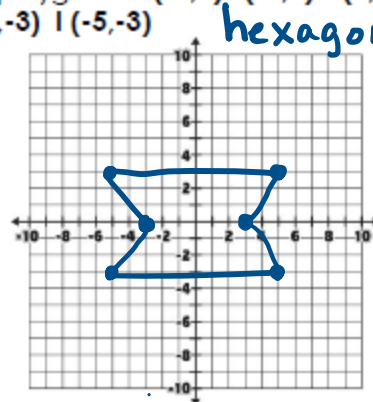
- 2** Plot the points in the coordinate plane below. Connect them in order and name the polygon.
A (6,7) B (-2,7) C (-5,-3) D (3,-3)



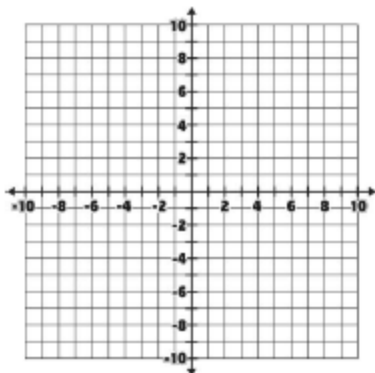
- 3** Plot the points in the coordinate plane below. Connect them in order and name the polygon. D (1,1) E (1,5) F (4,10) G(8,5) H(8,1)



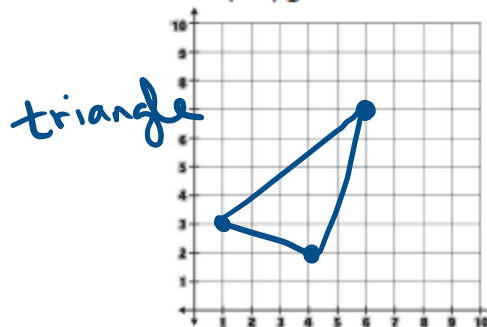
- 4** Plot the points in the coordinate plane below. Connect them in order and name the polygon. D (-3,0) E(-5,3) F (5,3) G(3,0) H (5,-3) I (-5,-3)



- 5** On the graph below, plot and label the 4 vertices of any parallelogram.



- 6** Kenzie is making a map of her city. The post office is located at (6,7). The park is located at (4,2) and the hospital is located at (1,3). If she visits them in the order listed, what polygon will she form?



Homework is on Khan Academy, due by tomorrow night.

Scratch work not required