

Name _____

1 In which quadrant of the coordinate plane is the point $(-7, -2\frac{1}{2})$ located?

$(-, -)$

- (A) Quadrant I (C) Quadrant III
(B) Quadrant II (D) Quadrant IV

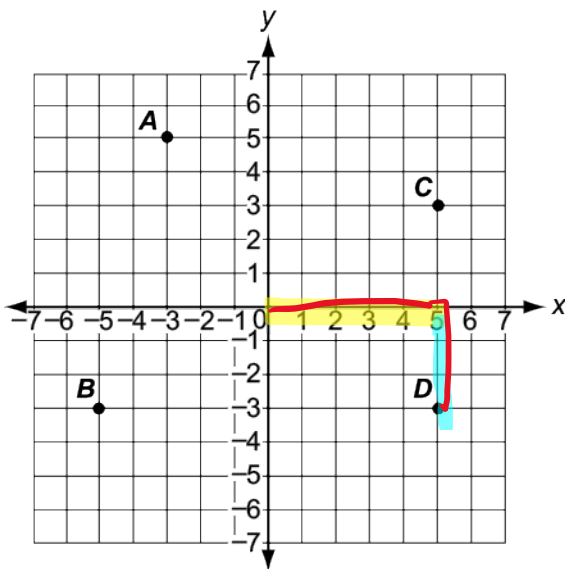
2 What is the distance between the points $(12, 6)$ and $(-8, 6)$ on a coordinate plane?

Signs Different
 $12 + 8$

- (A) 4 units (C) 12 units
(B) 6 units (D) 20 units

$|12| + |-8| = 20$

3 Which point is located at $(5, -3)$ on the coordinate plane?



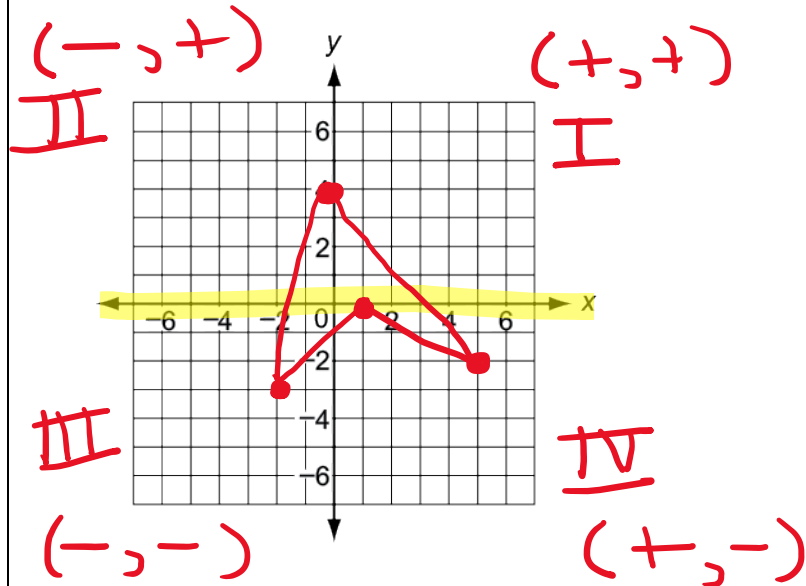
- (A) A (C) C
(B) B (D) D

4 What are the coordinates of the point $(-9, 10)$ after being reflected across the x-axis on a coordinate plane?

- (A) $(-9, -10)$ (C) ~~$(9, -10)$~~
(B) $(-9, 10)$ (D) ~~$(9, 10)$~~

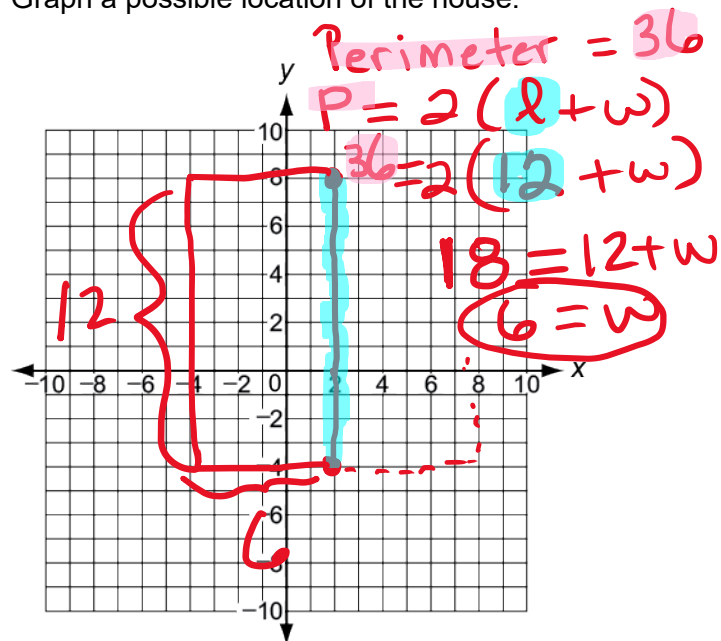
change the sign of the y-value

5 Graph a polygon with vertices located at $(0, 4)$, $(5, -2)$, $(1, 0)$, and $(-2, -3)$.



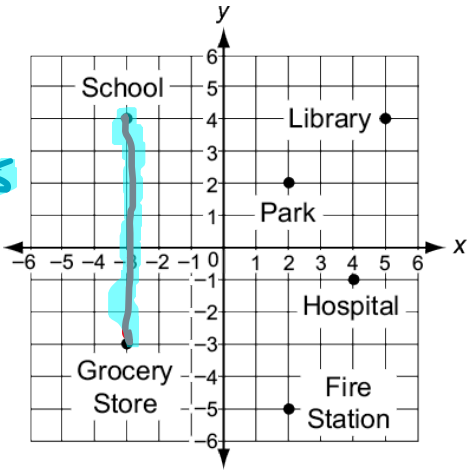
6 A builder uses the coordinate plane below to plan the location of a rectangular plot of land for a new house. The length of one side of the house will be located from $(2, 8)$ to $(2, -4)$. If the perimeter of the plot of land is 36 units, where can the builder plan to build the new house?

Graph a possible location of the house.



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- 7 Callie drew the map below to show her neighborhood.



7 units

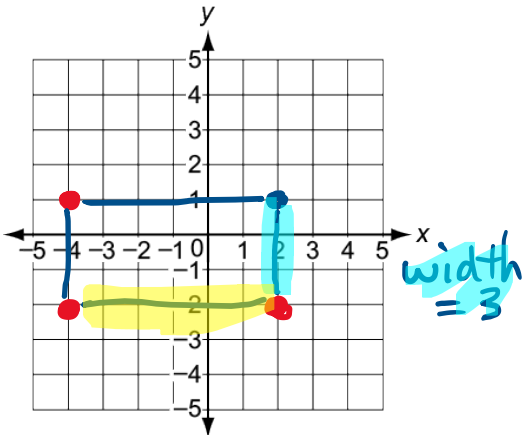
If each unit in the coordinate plane represents 1.5 miles, how many miles is it from the school to the grocery store?

10.5 miles

- 8 Three vertices of a rectangle are located at $(-4, 1)$, $(-4, -2)$, and $(2, -2)$ on a coordinate plane.

Part A

Graph the rectangle on the coordinate plane.



length = 6

width = 3

Part B

What is the area of the rectangle in square units?

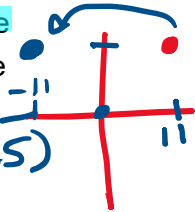
Area = $3 \times 6 = 18$ units²

- 9 The point $(11, 9.5)$ is reflected across the y-axis to create a new point. What is true about the new point?

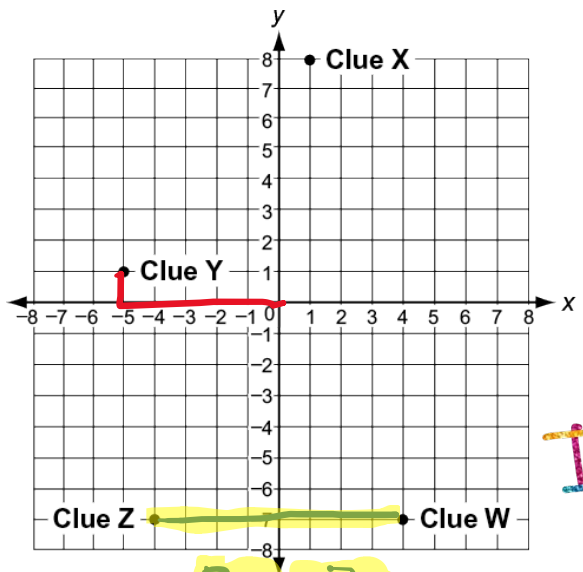
The new point is located at $(-11, 9.5)$.

The distance between the two points is 22 units.

change the x-value



- 10 The coordinate plane shows the location of four clues for a scavenger hunt.



8 units



Part A

Which clue is located in Quadrant IV?

- (A) Clue W
- (B) Clue X
- (C) Clue Y
- (D) Clue Z

Part B

What are the coordinates of Clue Y?

$(-5, 1)$

Part C

If each unit on the coordinate plane equals 50 yards, how many yards apart are Clue Z and Clue W?

400 yards

50
 $\times 8$

400