

Geometry

Unit 2 Quiz 2 Review A

Name: _____

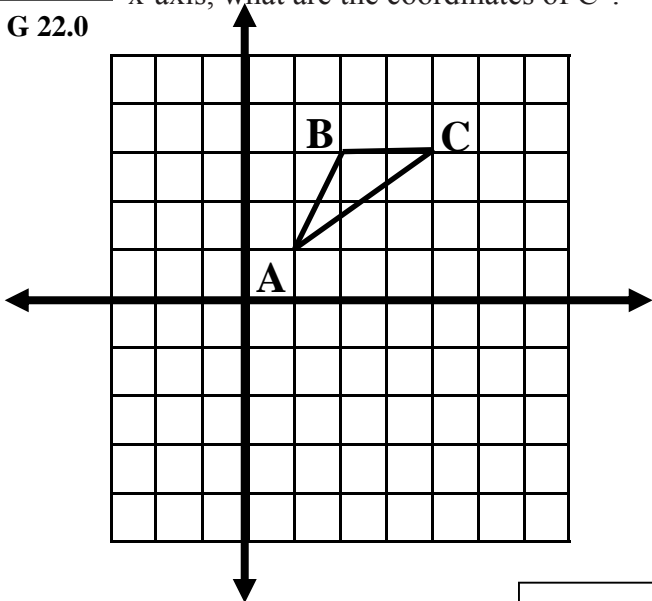
Date: _____

Period: 1 2 3 4 5 6

Directions: Show all your work. Write your answers in the boxes! Good Luck! Si se puede. Yes I can!

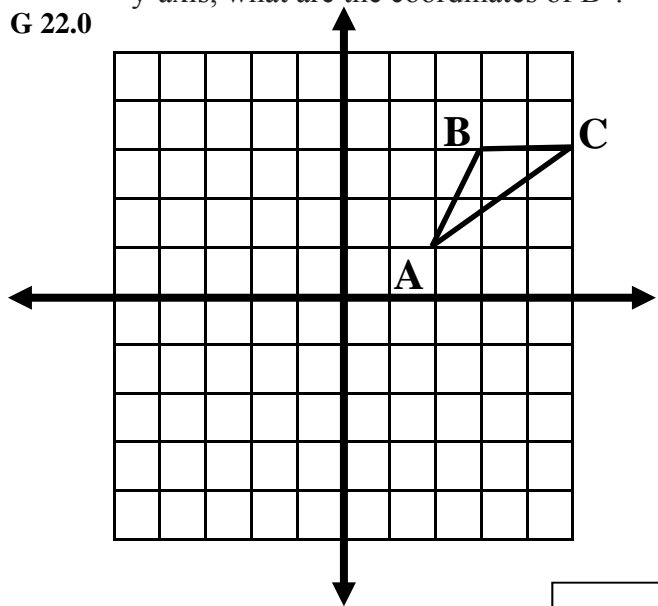
1 If triangle ABC is reflected about the x-axis, what are the coordinates of C'?

G 22.0



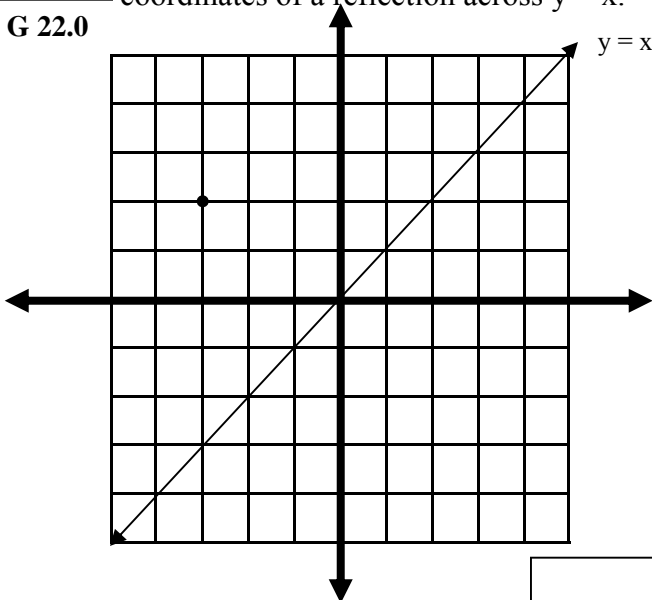
2 If triangle ABC is reflected about the y-axis, what are the coordinates of B'?

G 22.0



3 Given the point (-3, 2). What are the coordinates of a reflection across $y = x$.

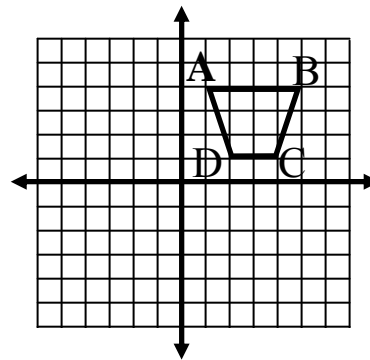
G 22.0



4 Trapezoid ABCD below is translated to trapezoid A'B'C'D' by the following motion rule.

G 22.0

$$(x, y) \rightarrow (x - 7, y - 3)$$



What are the coordinates of vertex A'?

What are the coordinates of vertex C'?

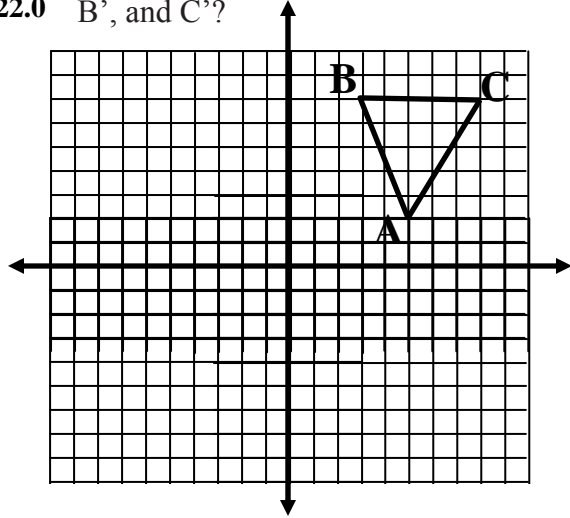
5 The vertices of $\triangle XYZ$ are $X(2,5)$, $Y(-1, 2)$ and $Z(0, -4)$. If $\triangle XYZ$ is translated 4 units down and 5 units to the right, then what are the coordinates of the vertices of $\triangle X'Y'Z'$

G 22.0

6

If triangle ABC is rotated 180° about the origin, then what are the coordinates of A', B', and C'?

G 22.0



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7

What is the slope of the line that goes through the points (6, -4) and (-2, -3)

G 22.0

8

What is the midpoint of the line that goes through the points (6, -4) and (-2, -3)

G 22.0

9

Which of the following is a perpendicular line to $y = 1/4 x + 2$ through the point (8, -3)

G 22.0

10

Which of the following is a parallel line to $y = 1/4 x + 2$ through the point (8, -3)

G 22.0

11

Given point A has the coordinates (4, 5). If A is reflected across the x-axis, then the coordinates of A' are:

G 22.0

12

Given point A has the coordinates (4, 5). If A is reflected across the y-axis, then the coordinates of A' are:

G 22.0

13

Given point A has the coordinates (4, 5). If A is translated by the rule: $(x, y) \rightarrow (x + 4, y - 2)$ Then the coordinates of A' are:

G 22.0

14

Given point A has the coordinates (4, 5). If A is translated by the rule: $(x, y) \rightarrow (x - 5, y + 3)$ Then the coordinates of A' are:

G 22.0

15

If line l_1 and line l_2 are perpendicular, then $(\text{slope of } l_1)(\text{slope of } l_2) =$

G 22.0