1.7 Transformations Review **Geometry**

Directions: Using the rule provided, describe the transformation that has occurred.

1) $(x, y) \rightarrow (y, x)$ 2) $(x, y) \rightarrow (-y, x)$ 3) $(x, y) \rightarrow (x - 3, y)$ 4) $(x, y) \rightarrow (x, -y)$

Directions: Write the rule to represent the transformation.

5) Rotate 90^o CW about the origin

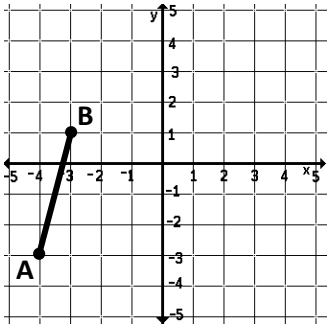
6) Translate 5 units left and 3 units up

7) Reflect over $y = -x$

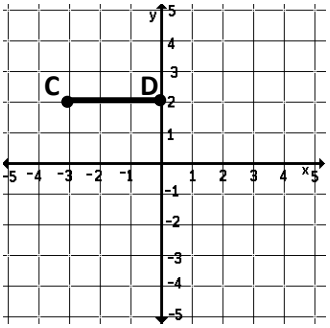
8) Rotate 180^o CCW about the origin

Directions: Graph the transformation using the given information.

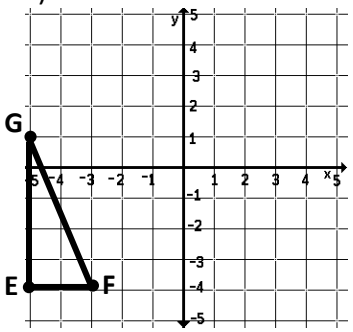
9) $(x, y) \rightarrow (-x, y)$



10) Rotate 90^o CCW about $(-2, 1)$



11) Reflect over $x = -1$



Directions: Solve each problem.

12) If Z(3, –4), what is Z' after it has been reflected over the x-axis and then moved 5 units to the right.

13) If R'(0, 5), what is R if the following rule was used to produce the image: $(x, y) \rightarrow (y, -x)$?

14) If J(3, 1) is reflected over $y = x$, which other transformation would have the same coordinate as J'?

A) M(1, 3) is transformed using the rule $(x, y) \rightarrow (-x, -y)$.

B) H(1, –3) is reflected over the y-axis.

C) W(–1, 3) is rotated 270^o CCW about the origin.

D) E(4, –5) is translated 3 units left and 8 units up.

Directions:

1) Log into usatestprep.com **2) Complete the following benchmark: JOJOWEZUTA**