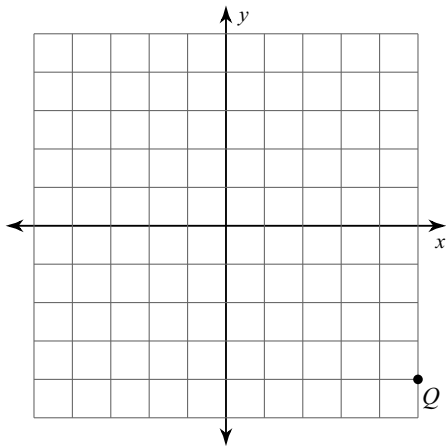


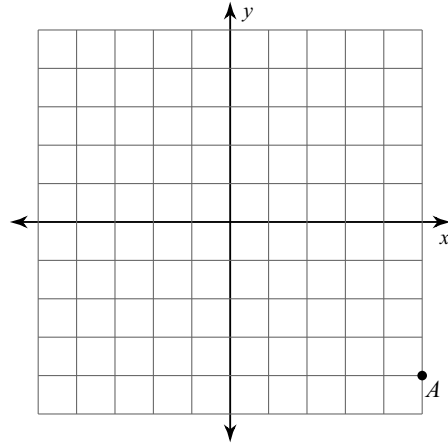
Final Review for BIG Test!

Graph the image of the figure using the transformation given.

- 1) rotation 90° counterclockwise about the origin

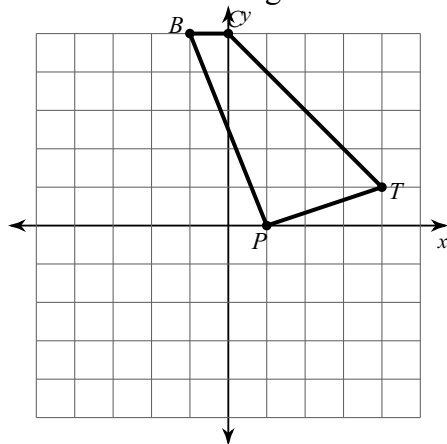


- 2) translation: 8 units left and 7 units up

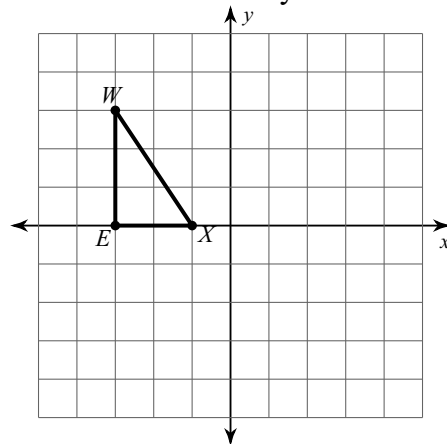


Find the coordinates of the vertices of each figure after the given transformation.

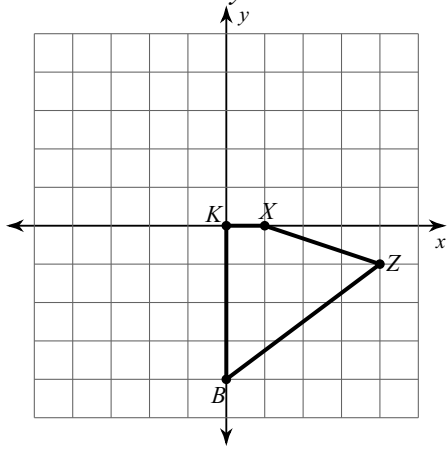
- 3) translation: 1 unit right and 1 unit down



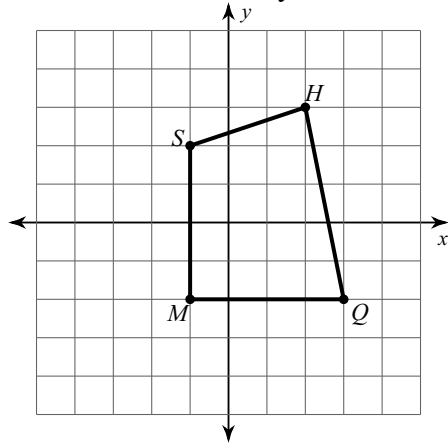
- 4) reflection across the y-axis



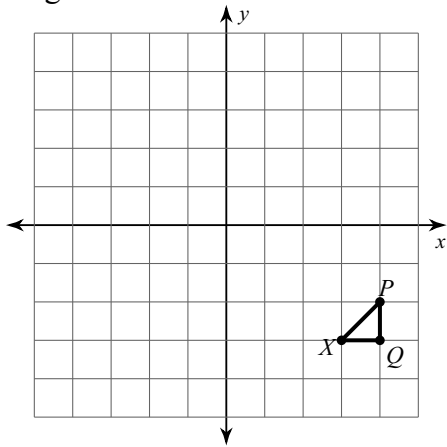
5) reflection across $y = -1$



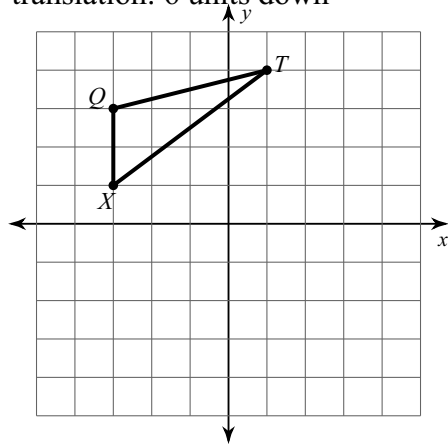
6) reflection across the y-axis



7) rotation 90° counterclockwise about the origin

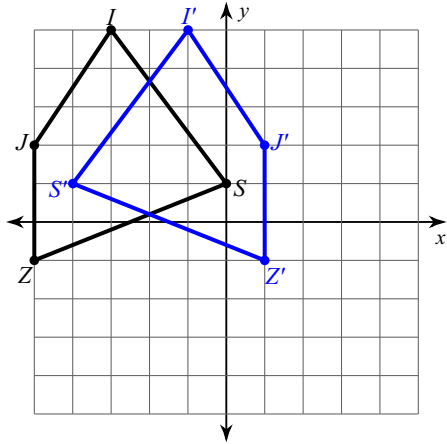


8) translation: 6 units down

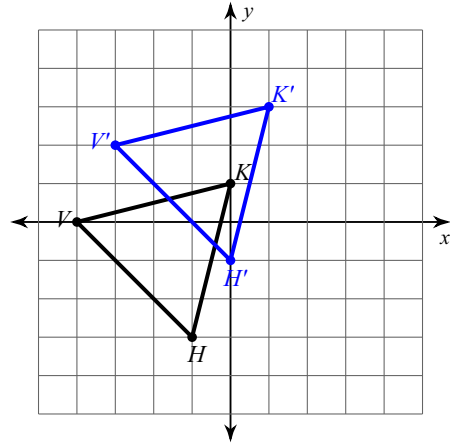


Write a rule to describe each transformation.

9)



10)



Solve each equation.

11) $-5(-2 + 6r) = -15 - 5r$

12) $7(1 - 2x) = -29 - 5x$

13) $22 - 3x = -2x + 7(1 + 2x)$

14) $-5 - 8x = -3(2x + 7)$

Solve each proportion.

$$15) -\frac{8}{3} = \frac{p}{7}$$

$$16) \frac{9r}{3} = \frac{4}{6}$$

$$17) \frac{12}{p-9} = \frac{6}{p+8}$$

$$18) \frac{n-7}{3} = \frac{n+2}{8}$$

$$19) \frac{10}{a+10} = \frac{3}{a+1}$$

$$20) \frac{n-4}{11} = \frac{n+12}{10}$$