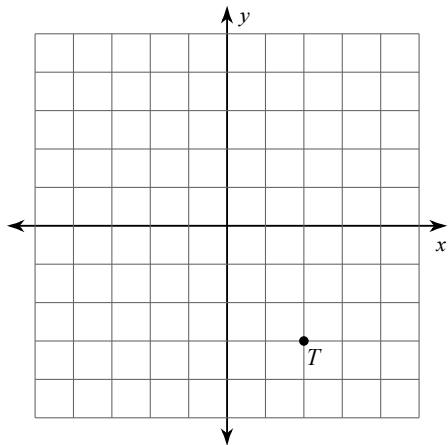


Final Review for BIG Test!

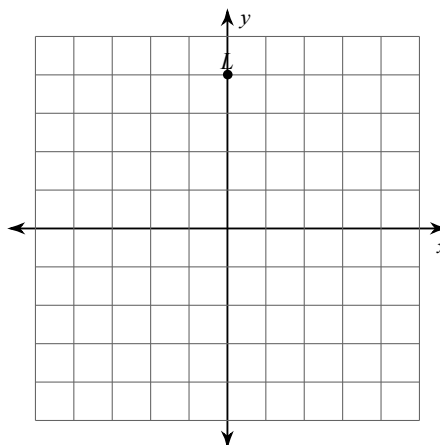
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Graph the image of the figure using the transformation given.

1) reflection across the x-axis

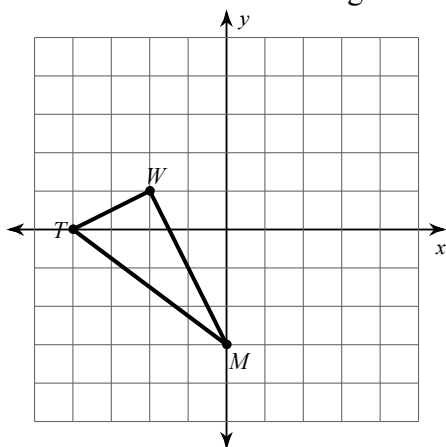


2) rotation 90° counterclockwise about the origin

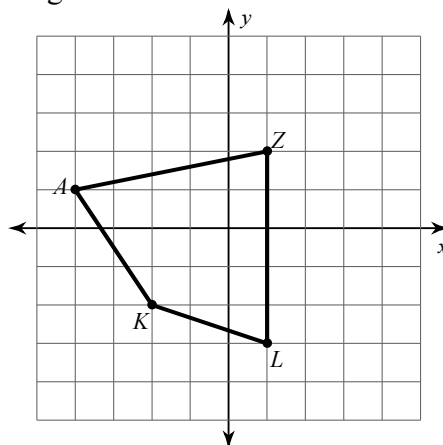


Find the coordinates of the vertices of each figure after the given transformation.

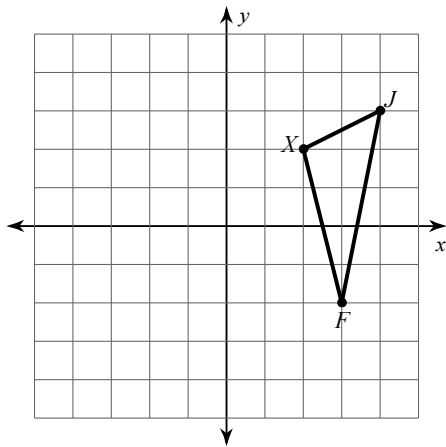
3) rotation 180° about the origin



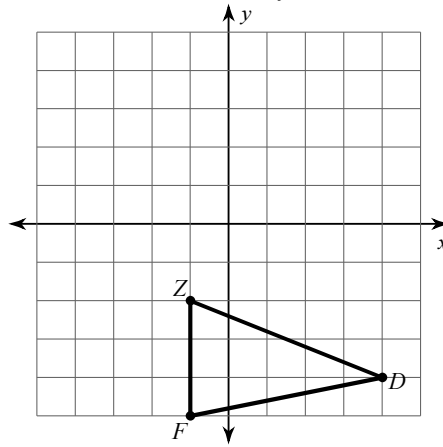
4) rotation 90° counterclockwise about the origin



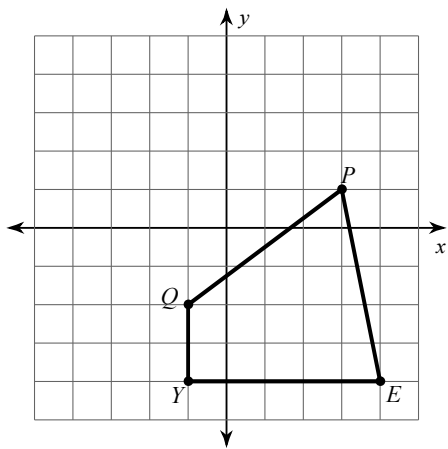
5) reflection across $x = 2$



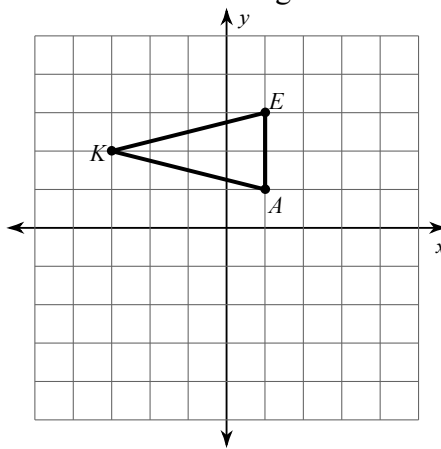
6) reflection across the y-axis



7) translation: 4 units left and 1 unit up

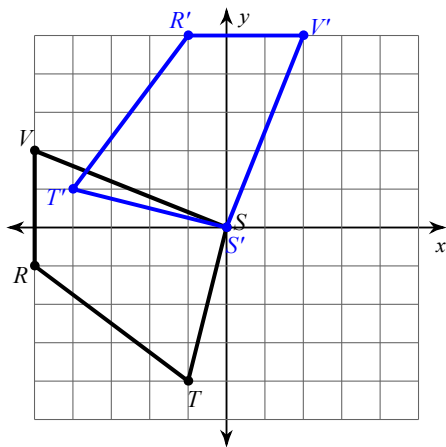


8) translation: 2 units right and 2 units down

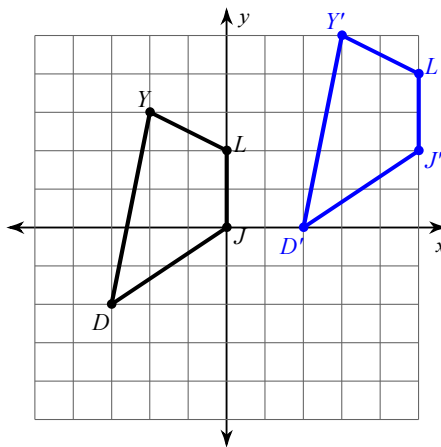


Write a rule to describe each transformation.

9)



10)



Solve each equation.

11) $5b - 3b = 10$

12) $6 = 6n - 4 + 4$

13) $-12 = -5x - x$

14) $8(1 + 4m) = 2m + 8$

$$15) -3(6p - 7) = -7p - 23$$

$$16) 7(1 + 5n) = -32 - 4n$$

$$17) 5(x + 5) = 7x + 29$$

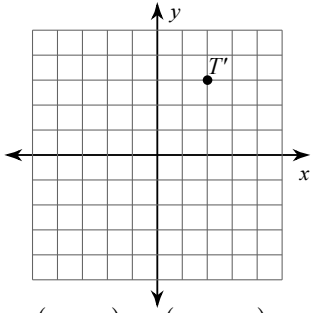
$$18) 12(1 - 3a) = 6(2a + 2)$$

$$19) 4(8x - 12) = 12(-x - 4)$$

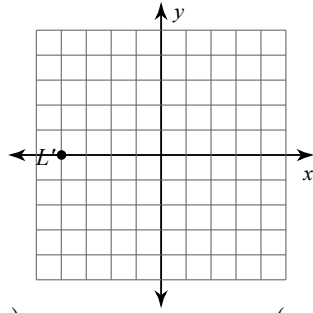
$$20) k - 8 + k - 8 = 11(1 + k) + 10(4k + 12)$$

Answers to Final Review for BIG Test!

1)



2)



3) $T'(4, 0)$, $W'(2, -1)$, $M'(0, 3)$

4) $K'(2, -2)$, $A'(-1, -4)$, $Z'(-2, 1)$, $L'(3, 1)$

5) $J'(0, 3)$, $F'(1, -2)$, $X'(2, 2)$

6) $Z'(1, -2)$, $D'(-4, -4)$, $F'(1, -5)$

7) $Y'(-5, -3)$, $Q'(-5, -1)$, $P'(-1, 2)$, $E'(0, -3)$

8) $K'(-1, 0)$, $E'(3, 1)$, $A'(3, -1)$

9) rotation 90° clockwise about the origin

10) translation: 5 units right and 2 units up

11) $\{5\}$

12) $\{1\}$

13) $\{2\}$

14) $\{0\}$

15) $\{4\}$

16) $\{-1\}$

17) $\{-2\}$

18) $\{0\}$

19) $\{0\}$

20) $\{-3\}$