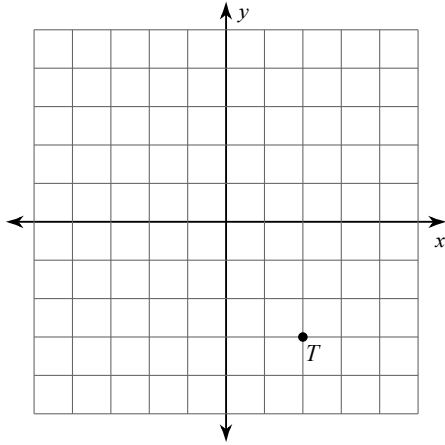


# Final Review for BIG Test!

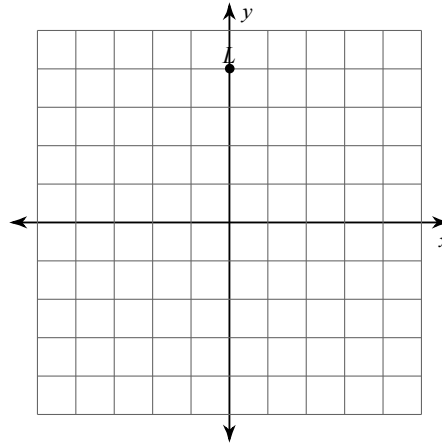
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**Graph the image of the figure using the transformation given.**

1) reflection across the x-axis

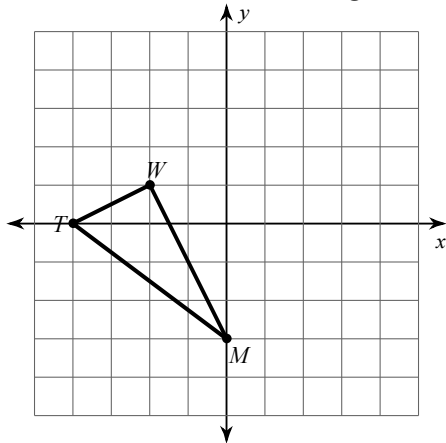


2) rotation  $90^\circ$  counterclockwise about the origin

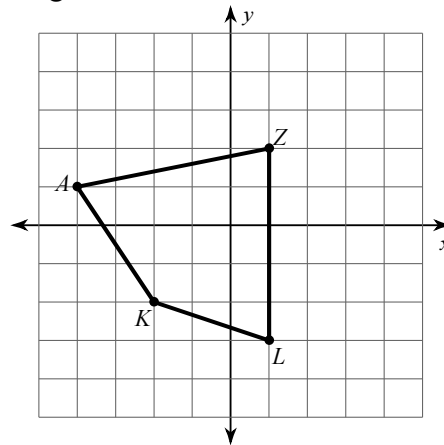


**Find the coordinates of the vertices of each figure after the given transformation.**

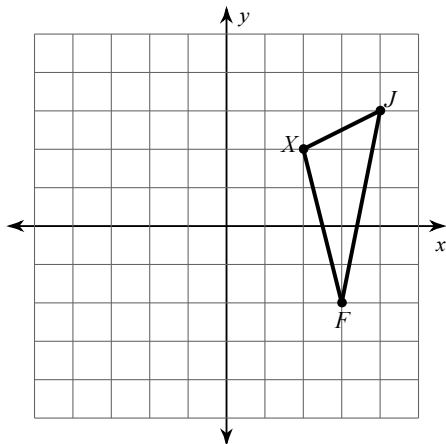
3) rotation  $180^\circ$  about the origin



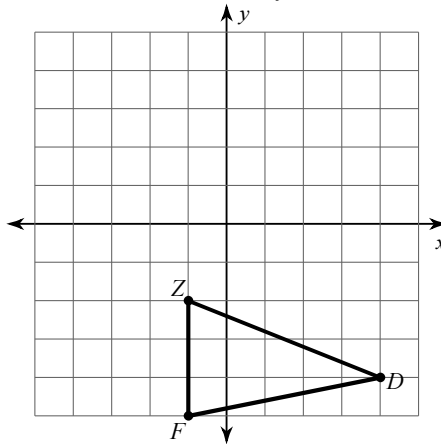
4) rotation  $90^\circ$  counterclockwise about the origin



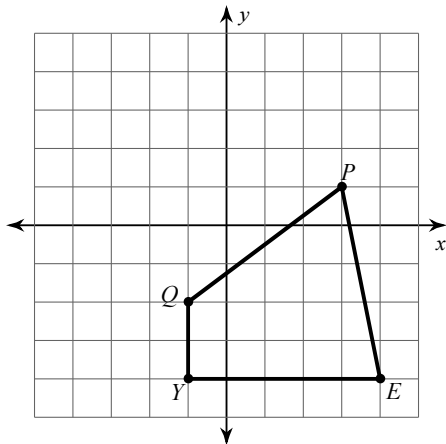
5) reflection across  $x = 2$



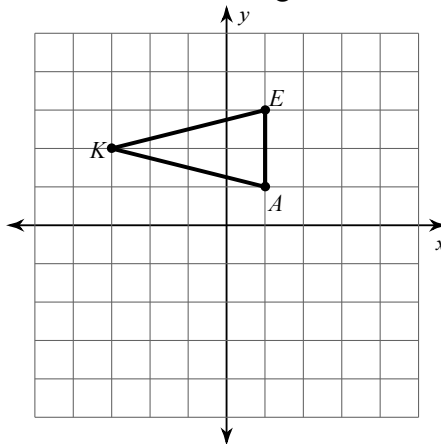
6) reflection across the y-axis



7) translation: 4 units left and 1 unit up

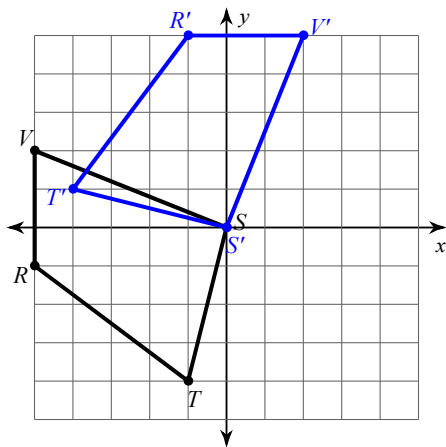


8) translation: 2 units right and 2 units down

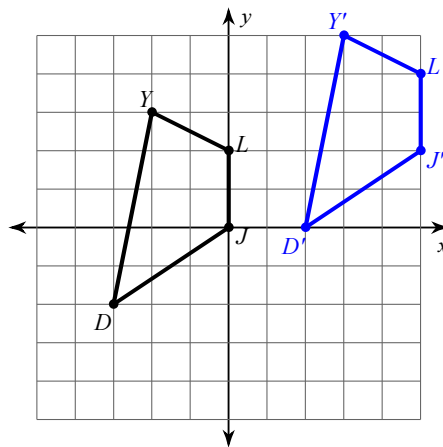


Write a rule to describe each transformation.

9)



10)



Solve each equation.

11)  $5b - 3b = 10$

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

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

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

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

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

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

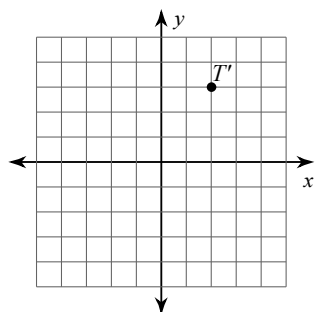
$$18) 12(1 - 3a) = 6(2a + 2)$$

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

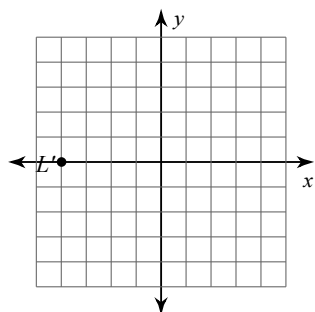
$$20) k - 8 + k - 8 = 11(1 + k) + 10(4k + 12)$$

# 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  $90^\circ$  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)  $\{-3\}$