

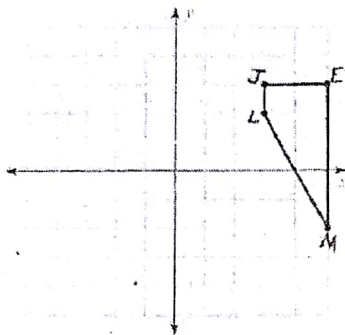
Unit 1 ^{SG} Quiz 1 – Translations & Reflections

Name _____

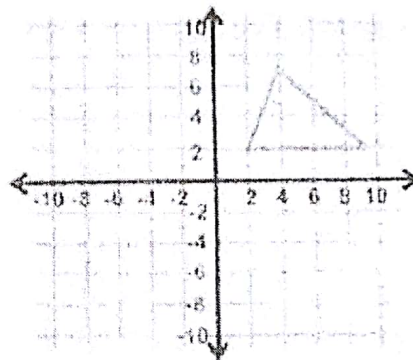
Describe the transformation.

- Given $A = (5, 4)$, describe the transformation if $A' = (0, 0)$. _____
- Given $C' = (3, -2)$, describe the transformation if $C = (-12, 32)$. _____
- Given $A = (3, -5)$, where would A' be if $T(x - 3, y + 4)$ occurred? _____
- Given $A = (5, 4)$, where would A' be if it was reflected over the line $y = 0$? _____

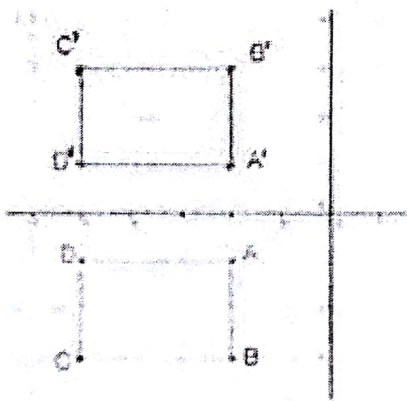
5. Reflect across the line $x = 0$



6. Reflect about the line $y = 0$



True or False: Circle the correct answer. 7-11



True or False 7. Quadrilateral $A'B'C'D'$ is the pre-image.

True or False 8. $\angle A \neq \angle A'$

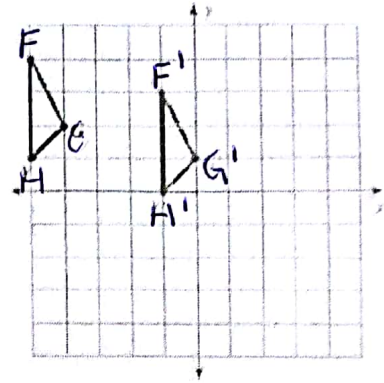
True or False 9. Quadrilateral ABCD is congruent to the quadrilateral $A'B'C'D'$.

True or False 10. The transformation shown is not a reflection.

True or False 11. Quadrilateral ABCD was rotation to create quadrilateral $A'B'C'D'$.

12 Write a translation rule to describe the transformation.

$T(x, y) = (\quad , \quad)$



13. Given $G = (4, 3)$ and $G' = (-4, 3)$, what is the line of reflection? _____

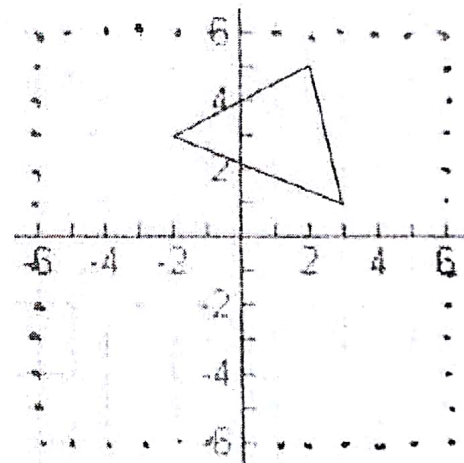
14. A figure is transformed by $T(x + 4, y - 2)$ and then transformation by $T(x + 1, y - 3)$. How does the original pre-image related to the final image after both transformations?

15 Point $P(2, 3)$ has been translated to $P'(4, 7)$. Where will point $Z(4, 7)$ be located after the same translation?

- a. $Z'(8, 9)$
- b. $Z'(6, 11)$
- c. $Z'(0, 5)$
- d. $Z'(11, 6)$

16. Graph the composition of transformations.

$T_{(-2, -3)}$, $R_{y\text{-axis}}$



5 Bonus Points: Factor and solve the following quadratic equation: $x^2 - 3x - 4 = 0$