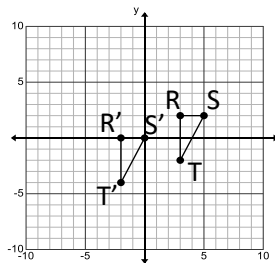


Chapter 9 Practice Test

Name _____

Hour _____ Score _____

1. $\Delta R'S'T'$ is a translation image of ΔRST .
What is a rule for the translation?



1. _____

2. Point $R(x,y)$ moves 5 units left and 10 units up. What is a rule that describes this translation?

2. _____

3. Is a rotation a rigid motion? Explain.

3. _____

Find the coordinates of the vertices of each image.

4. $R_{x=-1}(QRST)$

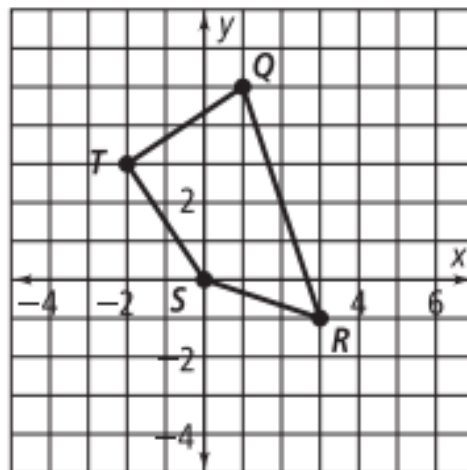
4. _____

5. $r_{(270^\circ, 0)}(QRST)$

5. _____

6. $T_{\langle 2, 5 \rangle}(QRST)$

6. _____

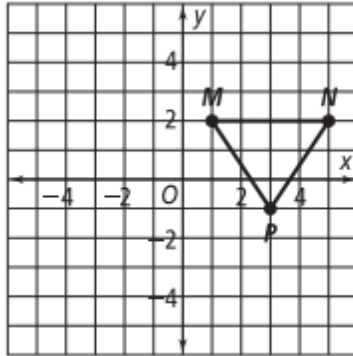


7. $(R_{x-axis} \circ T_{\langle 0, -2 \rangle})(QRST)$

7. _____

Write a single transformation rule that has the same effect as each composition of transformations.

8. $T_{\langle -4,7 \rangle} \circ T_{\langle 3,0 \rangle}$



8. _____

9. $R_{x=5} \circ R_{x=2}$

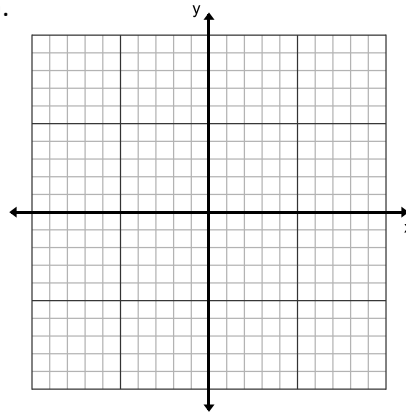
9. _____

10. $R_{y=3} \circ T_{\langle 0,2 \rangle}$

10. _____

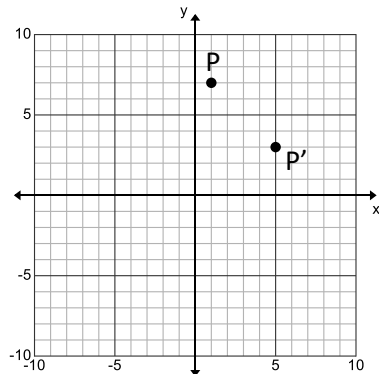
11. $\triangle ONM$ has vertices $O(0, 5)$, $N(4, 1)$ and $M(3, 6)$. What are the coordinates of the vertices of $(R_{y=-2} \circ T_{\langle -4,0 \rangle})(\triangle ONM)$.

11. _____



12. Draw the line that reflects P onto P' . Write the equation of the reflection line.

12. _____



Identify the rigid motion that maps the solid-line figure onto the dotted-line figure.

13.



14.

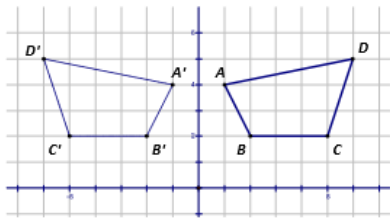


13. _____

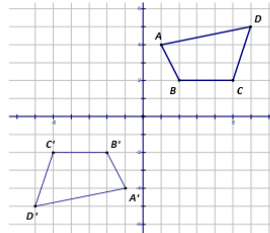
14. _____

Write the transformation that maps one figure to the other.

15.



16.

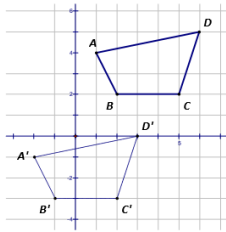


15. _____

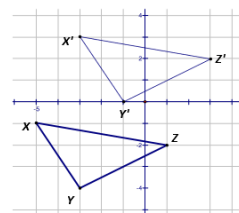
16. _____

Write the transformation that maps one figure to the other.

17.



18.

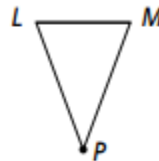


17. _____

18. _____

19. Draw $r_{(70^\circ, P)}(ABCD)$

20. Draw $r_{(110^\circ, P)}(\triangle LMP)$



•P