**9.6 Unit 9 Quiz 1 Review Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
1. What is the slope of the line y = -3x + 1? \_\_\_\_\_\_ What is the slope of a line parallel to this line? \_\_\_\_\_

 What is the slope of the line perpendicular to this line? \_\_\_\_\_\_\_\_\_\_\_

2. What is the slope of the line perpendicular to y = $\frac{2}{3}$x + 8?

3. Provide an equation for a perpendicular to the line y = $\frac{4}{5}$x + 4.

4. Write the equation for the line that passes through points (2, 5) & (-2, 4).

5. Write the equation of a line that is parallel to the line y = 3x – 3.

6. Write the equation of the line that is parallel to y = x -1 and passes through the point (2, 6).

7. Write the equation of a line that is perpendicular to the line y = 8x + 7.

8. What is the slope of the line that passes through points (8, 0) & (-2, 4)? Write the equation of the line.

9. What is the distance between (3, -3) & (7, 2)? Write the equation of the line that passes through these points.

10. What is the perimeter of a triangle with vertices (-1, 3), (0, 4), & (0, 3)?



11. Find the perimeter of quadrilateral RSTV.

12. Find the area of quadrilateral RSTV.

13. Find the midpoint of the segment with endpoints at (1, 4) & (4, 6).

14. Partition the segment with endpoints at (-2, 3) & (10, 6) at a ratio of 1:2.

15. Partition the segment with endpoints (12, 12) & (-3, 2) at a ratio of 1:4.


16. Write the equation of the line that would complete the
 parallelogram MATH. Then, find its perimeter and area.

17. Are the lines that pass through (3, -1) & (4, 2) and (1, 1) & (-3, 4)
 parallel, perpendicular, coincidental, or none?