NAME:_____

1. Determine if the two lines $2x - 9y = -18$ and $y = \frac{2}{9}x - 3$ are *parallel*, *perpendicular*, or *neither*.

2. Determine if the two lines $7x + 2y = 14$ and $y = \frac{7}{2}x + 2$ are *parallel*, *perpendicular*, or *neither*.

3. Determine if the two lines $3x - 5y = -15$ and $y = -\frac{3}{5}x - 1$ are *parallel*, *perpendicular*, or *neither*.

4. Determine if the two lines $7x - 3y = -21$ and $y = -\frac{3}{7}x + 5$ are *parallel*, *perpendicular*, or *neither*.

5. Determine if the two lines $5x + 4y = 20$ and $y = -\frac{4}{5}x - 4$ are *parallel*, *perpendicular*, or *neither*.

6. Determine if the two lines $4x - 3y = -12$ and $y = -\frac{4}{3}x - 3$ are *parallel*, *perpendicular*, or *neither*.

7. Determine if the two lines $2x - 7y = -14$ and $y = -\frac{2}{7}x - 1$ are *parallel*, *perpendicular*, or *neither*.

8. Determine if the two lines $6x - 5y = -30$ and $y = \frac{5}{6}x + 2$ are *parallel*, *perpendicular*, or *neither*.

9. Determine if the two lines $3x - 2y = -6$ and $y = -\frac{3}{2}x + 4$ are *parallel*, *perpendicular*, or *neither*.

10. Determine if the two lines $7x - 9y = -63$ and $y = \frac{9}{7}x + 1$ are *parallel*, *perpendicular*, or *neither*.

[1] The two lines are parallel.

[2] The two lines are neither perpendicular nor parallel.

[3] The two lines are neither perpendicular nor parallel.

[4] The two lines are perpendicular.

[5] The two lines are neither perpendicular nor parallel.

[6] The two lines are neither perpendicular nor parallel.

[7] The two lines are neither perpendicular nor parallel.