

Name: .....

Date: ..... Score: .....

## Writing Equations of Parallel and Perpendicular Lines Worksheet

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Determine whether the given pair of lines is parallel, perpendicular or neither

1  $y = 2x - 5$   
 $y = 5x - 5$

2  $y = 6x + 6$   
 $6x - 2y = 1$

3  $y = 4$   
 $4y = 6$

4  $y = x - 1$   
 $y = -x + 4$

5  $y = \frac{3}{4}x + 9$   
 $y = -\frac{4}{3}x + 1$

6  $y = -\frac{4}{3}x - 4$   
 $4x + 5y = -12$

7  $2y = 4x - 6$   
 $y = 2x + 9$

8  $y = 3x - 1$   
 $y = -3x + 2$

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### Answers

1  $y = 2x - 5$   
 $y = 5x - 5$

Neither parallel nor  
perpendicular

3  $y = 4$   
 $4y = 6$

Parallel

5  $y = \frac{3}{4}x + 9$   
 $y = -\frac{4}{3}x + 1$

Perpendicular

7  $2y = 4x - 6$   
 $y = 2x + 9$

Parallel

2  $y = 6x + 6$   
 $6x - 2y = 1$

Neither parallel nor  
perpendicular

4  $y = x - 1$   
 $y = -x + 4$

Perpendicular

6  $y = -\frac{4}{3}x - 4$   
 $4x + 5y = -12$

Neither parallel nor  
perpendicular

8  $y = 3x - 1$   
 $y = -3x + 2$

Neither parallel nor  
perpendicular