

### Parallel and Perpendicular Lines Worksheet

Determine whether the pairs of slopes listed are parallel, perpendicular or neither.

1.  $m = 2, m = -1/2$  \_\_\_\_\_
2.  $m = 3, m = -3$  \_\_\_\_\_
3.  $m = -4, m = -1/4$  \_\_\_\_\_
4.  $m = 10, m = -.1$  \_\_\_\_\_
5.  $m = 2, m = 3$  \_\_\_\_\_
6.  $m = 4/5, m = 8/10$  \_\_\_\_\_

Determine whether the pair of lines listed is parallel, perpendicular or neither. Show your work!

7.  $y = \frac{1}{4}x - 3$   
 $y = -4x + 3$

8.  $y = 2x - 4$   
 $y = -2x + 5$

9.  $3x + y = 5$   
 $y = -\frac{1}{3}x + 2$

10.  $2x + 3x - 6 = 0$   
 $y = -\frac{2}{3}x + 3$

Given the lines below, create a line that is parallel, one that is perpendicular and one that is neither.

Line	Parallel	Perpendicular	Neither
11. $y = 3x + 4$			
12. $2x - y = 8$			
13. $3x + 4y + 12 = 0$			
14. $y = 3$			