Finding the slope of parallel and perpendicular lines from points

Name _____

Find the slope of a line that would be *parallel* to the function given.

1. **Linear Function 1: (-2 , -1) and (2 , 1)**

2. **Linear Function 2: (0 , 9) and (2 , 5)**

3. **Linear Function 3: (0 , 7) and (20 , 3)**

4. **Linear Function 4: (0 , 5) and (12 , -15)**

Find the slope of a line that would be *perpendicular* to the function given.

5. **Linear Function 5: (2 , 3) and (4 , -15)**

6. **Linear Function 6: (0 , 0) and (10 , -16)**

7. **Linear Function 7: (-2 , 0) and (4 , 9)**

8. **Linear Function 8: (-1 , -5) and (2 , 13)**

Would the two functions given be described as parallel, perpendicular, or neither?

9. **Function A: (-1 , 1) and (1 , 9)**

   Function B: (0 , 0) and (4 , -1)

10. **Function C: (2 , 4) and (6 , 12)**

    Function D: (-2 , 5) and (2 , 7)

Answer Key.

1. m = ½
2. m = -2
3. m = -1/5
4. m = -5/3
5. m = -1/3
6. m = 5/8
7. m = -2/3
8. m = -1/6
9. perpendicular
10. neither