

Teacher : _____

Date : _____

Parallel and Perpendicular Lines

From the given slopes of the lines, identify whether the two lines are parallel, perpendicular, or neither.

	Slope of Line 1	Slope of Line 2	Answer
1)	$\frac{8}{11}$	$-\frac{11}{8}$	
2)	$\frac{7}{10}$	$\frac{7}{10}$	
3)	$\frac{2}{3}$	$-\frac{2}{3}$	
4)	6	$\frac{1}{6}$	
5)	6	$\frac{1}{6}$	
6)	$\frac{8}{11}$	$-\frac{11}{8}$	
7)	4	4	
8)	11	$-\frac{1}{11}$	
9)	11	$-\frac{1}{11}$	
10)	$\frac{3}{8}$	$\frac{8}{3}$	

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Slopes of Parallel and Perpendicular Lines

For the given slope, find the slope of any parallel and perpendicular line to it.

	Slope of a Line	Slope of Any Parallel Line	Slope of Any Perpendicular Line
1)	11		
2)	8		
3)	$\frac{7}{9}$		
4)	$\frac{6}{11}$		
5)	7		
6)	$\frac{3}{8}$		
7)	2		
8)	$\frac{8}{11}$		
9)	$\frac{7}{11}$		
10)	10		

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Perpendicular Lines

Find the equation of a line passing through the given point and perpendicular to the given equation.

Write your answer in slope-intercept form.

1) (1 , 2) and $4x + 3y = 3$ Answer: _____	5) (2 , 1) and $y = -\frac{3}{4}x + 4$ Answer: _____
2) (0 , -1) and $-7x + 2y = 8$ Answer: _____	6) (0 , 3) and $y = -4x + 4$ Answer: _____
3) (4 , -2) and $2x + 3y = -9$ Answer: _____	7) (3 , 1) and $-4x + 3y = -6$ Answer: _____
4) (2 , 5) and $y = \frac{5}{2}x - 4$ Answer: _____	8) (-3 , -2) and $y = -5x - 3$ Answer: _____



