

Parallel and Perpendicular Lines

Determine if the following equations are parallel, perpendicular, or neither

1. $y = \frac{1}{2}x + 4$ $y = \frac{1}{2}x - 5$	2. $3x + y = 5$ $x - 3y = -3$	3. $y = \frac{1}{4}x + 3$ $2x + 8y = -8$	4. $2x + 4y = 8$ $3x + 6y = -6$
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Write the equation of a line parallel and a line perpendicular to the given equation.

Line	Parallel Lines	Perpendicular Lines
5. $y = \frac{1}{3}x + 1$ $(-3, 4)$		
6. $y = 4x + 2$ $(-8, -3)$		
7. $6x - 3y = 12$ $(-6, 1)$		
8. $10x + 5y = 15$ $(-2, 0)$		