

Name \_\_\_\_\_ Block \_\_\_\_\_

Fill in the table with the correct slope.

Equation	What is the slope of all lines <b>parallel</b> to the given equation?	What is the slope of all lines <b>perpendicular</b> to the given equation?
$y = 3x + 2$		
$y = \frac{1}{2}x - 3$		
$y = -2x$		
$y = -\frac{3}{4}x - \frac{7}{4}$		
$y = -5x + 5$		
$y = \frac{1}{3}x - 12$		
$y = -\frac{5}{4}x + \frac{3}{4}$		
$y = 2x - 1$		

Find the equation of the line passing through the given point that is **parallel** to the given equation.

1)  $y = 2x + 3$ , (3,3)

2)  $y = -\frac{1}{2}x + 2$ , (4,-3)

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

3)  $y = -x + 4$ , (-1,-2)

4)  $y = \frac{2}{3}x - 1$ , (2,-3)