## **Writing Equations of Parallel and Perpendicular Lines**

Name :

Class :

Parallel to $y = -5x + 2$ and pa	asses
through point $(1, -4)$	

$$x_1 = \square$$
  $y_1 = \square$   $m_1 = \square$ 

$$y = mx + b$$

$$y = mx + b$$

## **Parallel** to y = -x - 5 and passes through point (1, -3)

$$x_1 =$$
  $y_1 =$   $m_1 =$ 

y = mx + b

$$y = mx + b$$

$$y =$$
 (write the answer without spacing)

**Perpendicular** to  $y = \frac{1}{3}x + 3$  and passes through point (2, -4)

(write the answer without spacing)

$$x_1 =$$
  $y_1 =$   $m_1 =$ 

$$y = mx + b$$

**Perpendicular** to  $y = -\frac{1}{2}x$  and passes through point (4,3)

$$x_1 = \boxed{\qquad} y_1 = \boxed{\qquad} m_1 = \boxed{\qquad}$$
$$y = mx + b$$

y = mx + b

$$y =$$
 (write the answer without spacing)

y = mx + b

$$y =$$
 (write the answer without spacing)

## Writing Equations of Parallel and Perpendicular Lines

Parallel to  $y = \frac{3}{4}x - 3$  and passes through point (-4, -5)

$$x_1 =$$
  $y_1 =$   $m_1 =$ 

$$y = mx + b$$

$$y = mx + b$$

$$y =$$
 (write the answer without spacing)

Parallel to  $y = -\frac{1}{5}x - 2$  and passes through point (5,3)

$$x_1 =$$
  $y_1 =$   $m_1 =$ 

$$y = mx + b$$

$$y = mx + b$$

$$y =$$
 (write the answer without spacing)

**Perpendicular** to y = 5x - 3 and passes through point (-5,5)

$$x_1 =$$
  $y_1 =$   $m_1 =$ 

$$y = mx + b$$

**Perpendicular** to y = 2x - 5 and passes through point (6,7)

$$x_1 =$$
  $y_1 =$   $m_1 =$ 

$$y = mx + b$$

y = mx + b

$$y = \begin{bmatrix} \\ \\ \text{(write the answer without spacing)} \end{bmatrix}$$

y = mx + b

$$y =$$
 (write the answer without spacing)