

Writing Equations of Parallel and Perpendicular Lines

Name :

Class :

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

$$x_1 = \boxed{} \quad y_1 = \boxed{} \quad m_1 = \boxed{}$$

$$y = mx + b$$

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

$$x_1 = \boxed{} \quad y_1 = \boxed{} \quad m_1 = \boxed{}$$

$$y = mx + b$$

$$y = mx + b$$

$$y = \boxed{}$$

(write the answer without spacing)

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

$$x_1 = \underline{\hspace{1cm}} \quad y_1 = \underline{\hspace{1cm}} \quad m_1 = \underline{\hspace{1cm}}$$

$$y = mx + b$$

$$y = mx + b$$

$y =$
(write the answer without spacing)

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

$$x_1 = \boxed{} \quad y_1 = \boxed{} \quad m_1 = \boxed{}$$

$$y = mx + b$$

$$y = mx + b$$

$y =$
(write the answer without spacing)

Writing Equations of Parallel and Perpendicular Lines

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

$$x_1 = \boxed{} \quad y_1 = \boxed{} \quad m_1 = \boxed{}$$

$$y = mx + b$$

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

$$x_1 = \boxed{} \quad y_1 = \boxed{} \quad m_1 = \boxed{}$$

$$y = mx + b$$

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

$$x_1 = \boxed{} \quad y_1 = \boxed{} \quad m_1 = \boxed{}$$

$$y = mx + b$$

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

$$x_1 = \boxed{} \quad y_1 = \boxed{} \quad m_1 = \boxed{}$$

$$y = mx + b$$

$$y = \boxed{} \quad \text{(write the answer without spacing)}$$

$$y = \boxed{} \quad \text{(write the answer without spacing)}$$