Writing Equations of Parallel and Perpendicular Lines

Name :

Class :

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

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

$y = mx + b$

$y = mx + b$

$y =$ ____

(write the answer without spacing)

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 $(2, -4)$

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

$y = mx + b$

$y = mx + b$

$y =$ ____

(write the answer without spacing)

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

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

$y = mx + b$

$y = mx + b$

$y =$ ____

(write the answer without spacing)

Writing Equations of Parallel and Perpendicular Lines

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

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

$y = mx + b$

$y = mx + b$

$y =$ ____

(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 $(-5,5)$

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

$y = mx + b$

$y = mx + b$

$y =$ ____

(write the answer without spacing)

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

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

$y = mx + b$

$y = mx + b$

$y =$ ____

(write the answer without spacing)