

Writing Equations of Parallel and Perpendicular Lines

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

$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $m = \underline{\hspace{2cm}}$

$$y = mx + b$$

$$y = mx + b$$

$$y = \underline{\hspace{4cm}}$$

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

$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $m = \underline{\hspace{2cm}}$

$$y = mx + b$$

$$y = mx + b$$

$$y = \underline{\hspace{4cm}}$$

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

$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $m = \underline{\hspace{2cm}}$

$$y = mx + b$$

$$y = mx + b$$

$$y = \underline{\hspace{4cm}}$$

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

$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $m = \underline{\hspace{2cm}}$

$$y = mx + b$$

$$y = mx + b$$

$$y = \underline{\hspace{4cm}}$$

Writing Equations of Parallel and Perpendicular Lines

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

$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $m = \underline{\hspace{2cm}}$

$$y = mx + b$$

$$y = mx + b$$

$$y = \underline{\hspace{4cm}}$$

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

$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $m = \underline{\hspace{2cm}}$

$$y = mx + b$$

$$y = mx + b$$

$$y = \underline{\hspace{4cm}}$$

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

$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $m = \underline{\hspace{2cm}}$

$$y = mx + b$$

$$y = mx + b$$

$$y = \underline{\hspace{4cm}}$$

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

$x = \underline{\hspace{2cm}}$ $y = \underline{\hspace{2cm}}$ $m = \underline{\hspace{2cm}}$

$$y = mx + b$$

$$y = mx + b$$

$$y = \underline{\hspace{4cm}}$$