

The following pages show an example homework. The first problem for HW #1 is also shown.

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Math 65

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HW #1

Example heading is on top left.

5.1

Show section number.

$$23. \begin{cases} y = -\frac{7}{2}x - 8 \\ y = 5x + 9 \end{cases}$$

$$y = -\frac{7}{2}x - 8$$

$y = mx + b$

$$y = 5x + 9$$

$y = mx + b$

Slope	y-intercept
$m = -\frac{7}{2}$	$b = -8$
	$(0, -8)$

Slope	y-intercept
$m = 5$	$b = 9$
	$(0, 9)$

See graph on next page

Check  $\begin{cases} y = -\frac{7}{2}x - 8 \\ y = 5x + 9 \end{cases}$  for  $(-2, -1)$

$$(-1) = -\frac{7}{2}(-2) - 8$$

$$(-1) = 5(-2) + 9$$

$$-1 = -10 + 9$$

$$(-1) = -\frac{7}{2}\left(\frac{-2}{1}\right) - 8$$

$$-1 = -1$$

$$-1 = 7 - 8$$

$$-1 = -1$$

The solution set is  $\{(-2, -1)\}$ .

