Example 1

Express $y = -\frac{1}{6}x + 4$ in general form.

$$y = -\frac{1}{6}x + 4$$
$$y + \frac{1}{6}x - 4 = -\frac{1}{6}x + 4 + \frac{1}{6}x - 4$$
$$\frac{1}{6}x + y - 4 = 0$$
$$6\left(\frac{1}{6}x + y - 4\right) = 6(0)$$
$$x + 6y - 24 = 0$$

Check Up

1. Express $y = -\frac{2}{3}x + 7$ in general form.

Compare your answer.

1. Express $y = -\frac{2}{3}x + 7$ in general form.

$$y = -\frac{2}{3}x + 7$$
$$\frac{2}{3}x + y - 7 = -\frac{2}{3}x + 7 + \frac{2}{3}x - 7$$
$$\frac{2}{3}x + y - 7 = 0$$
$$3\left(\frac{2}{3}x + y - 7\right) = 3(0)$$
$$2x + 3y - 21 = 0$$