



## Check Up

1. The graph of a linear relation with a slope of  $-\frac{2}{3}$  contains the point  $(-6, 5)$ . Determine the equation of the relation, in slope-intercept form.



Compare your answer.

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The slope is given, so the equation will be of the form  $y = -\frac{2}{3}x + b$ . The value of  $b$  can be determined by substituting the given point into this equation and then solving for  $b$ .

$$y = -\frac{2}{3}x + b$$

$$5 = -\frac{2}{3}(-6) + b$$

$$5 = 4 + b$$

$$5 - 4 = \cancel{4} + b \cancel{-4}$$

$$1 = b$$

The equation of the relation is  $y = -\frac{2}{3}x + 1$ .