

Review: Writing Linear Equations in Slope-Intercept Form

Write the eq of the line in Slope-Intercept Form given the following characteristics of the line:

1) Slope = -16 ; $b = 4$

2) Slope = $\frac{1}{2}$; y-intercept = 5

3) $m = -3$; passes thru $(0, -6)$

To build a deck, you decide to rent a nail gun. The rental company charges a flat fee of \$20.00 & an additional \$2.00 per hour to rent the tool.

4) write an equation to model the total charge y (in dollars) in terms of x , the number of hours you rent the tool.

5) you have only budgeted a total of \$60.00 for the tool rental. if you rent the tool for 10 hours, do you have enough money?



Answers:

$$1) y = -16x + 4$$

$$2) y = \frac{1}{2}x + 5$$

$$3) y = -3x - 6$$

$$4) y = 2x + 20$$

5) yes - if you need the tool for 10 hours, then $x = 10$.
so...

$$\begin{aligned}y &= 2x + 20 \\&= 2(10) + 20 \\&= 20 + 20\end{aligned}$$

$$y = 40$$

so, the total charge for 10 hours is \$40.00.