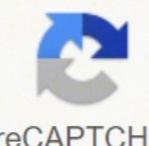
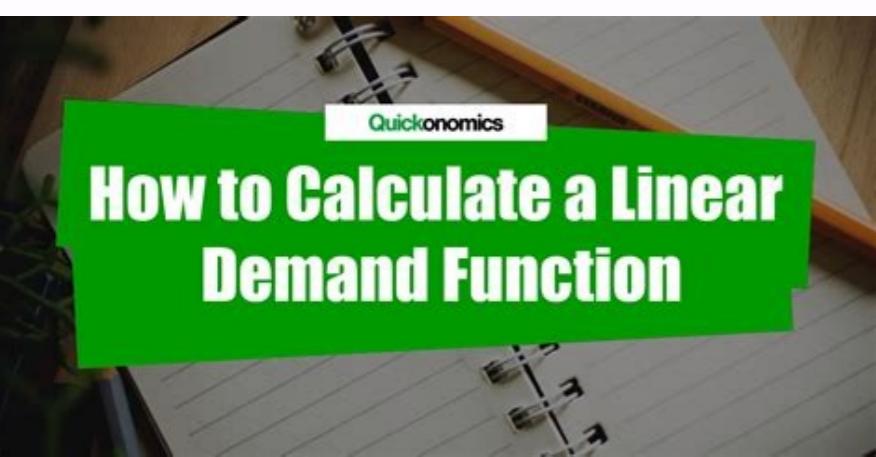


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# Linear equation slope forms

$$\begin{aligned}
 Ax + By &= c && \text{Multiples} \\
 y &= \frac{7}{3}x - 12 \\
 \frac{-7}{3}x + y &= -12 \\
 3\left(\frac{-7}{3}x + y\right) &= (-12)^3 \\
 -7x + 3y &= -36
 \end{aligned}$$



## Point-Slope Form is:

$$y - y_1 = m(x - x_1)$$

We are given the following information in this problem:

Slope ( $m$ ): ?

Point: (-4,4) and (6,9)

**\*\*Note:** We can use either point (not both) in the point-slope form equation. However, we must know the slope (which is not given in this problem).

**Step 1:** Find the slope using the slope formula.

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{9 - 4}{6 - (-4)} = \frac{5}{10} = \frac{1}{2}$$

The slope of the line is  $\frac{1}{2}$ .

**Step 2:** Substitute into the Point-Slope Formula.

## Now we know:

Slope ( $m$ ):  $\frac{1}{2}$

Point: (-4,4) (\*You can use either point)

$$y - y_1 = m(x - x_1)$$

$$y - 4 = \frac{1}{2}(x - (-4))$$

$$y - 4 = \frac{1}{2}(x + 4) \quad (\text{Simplify: } x - (-4) = x + 4)$$

1. Oscar wants to rent a boat. The rental shop charges an initial fee of \$12 plus \$8 per hour to rent the boat. If the total cost was \$120, for how many hours was the boat rented? If he rented the boat for 3 hours, what would be the total cost?

$$y = mx + b$$

\$ Money  $\rightarrow \frac{\Delta Y}{\Delta X}$

Time  $\rightarrow \Delta X$

Iter

Slope  
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1 of 4 

A Cartesian coordinate system with a horizontal x-axis and a vertical y-axis. The origin is marked with a red dot. The y-axis is labeled 'y' at the top, and the x-axis is labeled 'x' at the right. A straight line passes through the y-intercept at (0, 2) and the x-intercept at (6, 0).

To graph a linear equation in slope-intercept form, we can use the information given by that form. For example,  $y=2x+3$  tells us that the slope of the line is 2 and the y-intercept is at  $(0,3)$ . This gives us one point the line goes through, and the direction we ... Graph a Linear Equation in Slope-Intercept Form (362 views this week) Determining the Equation from a Linear Equation Graph (153 views this week) Converting from Standard to Slope-Intercept Form (145 views this week) Writing a Linear Equation from Two Points (144 views this week) Writing a Linear Equation from the Slope and y-intercept (140 views this week) Determining the ... The slope of the line is  $b$ , and  $a$  is the intercept

intercept forms. Practice drawing the graph of a line given in slope-intercept form. For example, graph  $y = 3x + 2$ . ... Math Algebra 1 Forms of linear equations Graphing slope-intercept equations. ... Graph from slope-intercept equation. Graphing slope-intercept form. Practice: Graph from slope-intercept form. This is the currently selected item. Equation of Straight Line. The general equation of a straight line is  $y = mx + c$ , where  $m$  is the slope of the line and  $c$  is the  $y$ -intercept. It is the most common form of the equation of a straight line that is used in geometry. The equation of a straight line can be written in different forms such as point-slope form, slope-intercept form, general form, standard form, etc. Substitute a convenient value of  $x$  into your equation and solve for  $y$  (You're doing this to get the point  $x = 1, y = 1$ ). Let's choose  $x = 3$ . Yes, you could choose  $x = 0$  and make your life really easy! Then substitute the  $x$  and  $y$  values that found into the point slope formula.

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