

Warm-Up Question.....

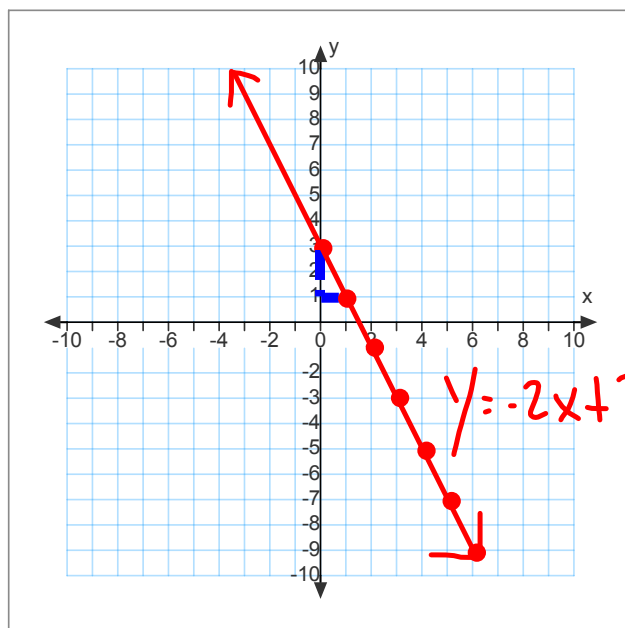
1. Given $y = -2x + 3$, identify the slope and y-intercept and use these to graph the line.

$$\text{Slope} = \frac{-2}{1}$$

$$\text{Rise} = -2$$

$$\text{Run} = 1$$

$$\text{y-int} = 3$$

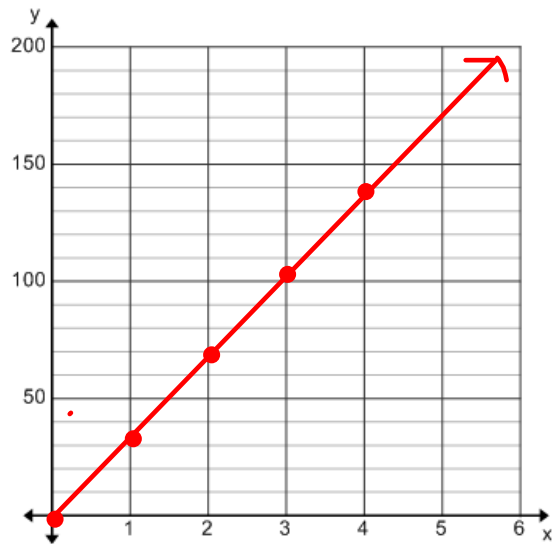


Ex. 1 A skating training session at "The Zone" on their treadmill, costs \$35 per session. Graph the relationship that models the cost. Write an equation relating C , the cost in dollars, to n , the number of sessions.



Method #1 Use a Table of Values

N	y
N	C
0	0
1	35
2	70
3	105
4	140



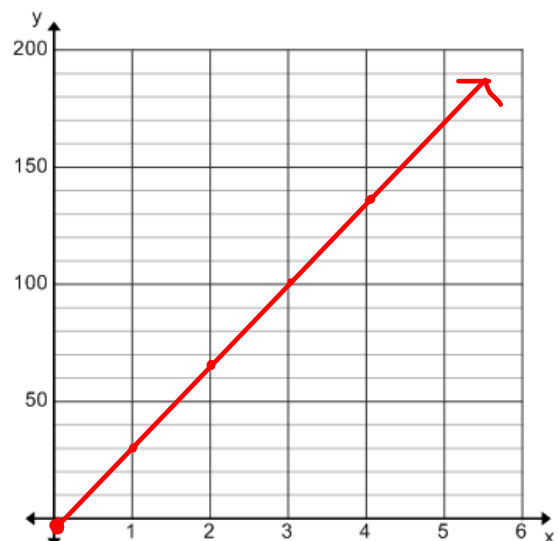
$$y = mx + b$$

Method #2 Use the slope and y-intercept

$$C = 35N + 0$$

$$\text{Slope} = \frac{35}{1} \begin{matrix} \text{- Rise} \\ \text{- Run} \end{matrix}$$

$$y\text{-int} = 0$$



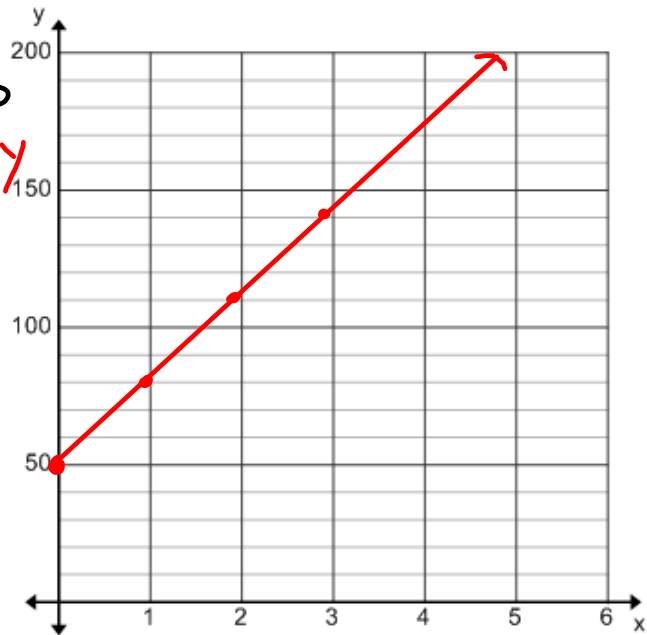
Ex. 2 A ski lesson costs \$30 per hour and then there is a fixed cost of \$50 to rent the ski equipment needed to ski.

Graph the relationship that models the cost. Write an equations relating C , the cost in dollars, to n , the number of ski lessons.

\$30 per hour $\rightarrow m$
 \$50 to rent for the day $\rightarrow b$
 C is cost $\rightarrow y$
 N is # of lessons $\rightarrow x$

$$y = mx + b$$

$$C = 30N + 50$$



slope = $\frac{30}{1}$ - Rise - Run yint = 50

Ex. 3

A pizza at Monster Pizza costs \$12.00 plus \$1.75 per topping. Graph the linear relation that models the cost. Write an equation relating C , the cost in dollars, to t , the number of toppings.

$$y = mx + b$$

$$C = 1.75t + 12$$

t	C
0	12
1	13.75
2	15.50
3	17.25

