Do Now

Determine which ordered pair lies on the graph of the line 7x - y = 10

1) (2, 4)

$7(2)-(4)=10$
$14-4=10$
$10=10$ ✓

3) (-2, 4)

$7(-2)-(4)=10$
$-14-4=10$
$-18 \neq 10$

2) (2, -4)

$7(2)-(-4)=10$
$14+4\neq10$
$18\neq10$

4) (-2, -4)

$7(-2)-(-4)=10$
$-14+4=10$
$-10\neq10$

May 25-6:52 AM

Homework Answers

1) B
2) C
3) B
4)D
5) B
6) B
7) B
8) n = -22
9) -63x + 35
10) x = 1
11) x = 5

12) 6x + 78 = 39
6x = -39
$x = -6\frac{1}{2}$

13) Let x = # of weeks
20x + 100 = 460
x = 18 weeks

14) Let x = # of text msgs
29.94 + .10x = 32.99 + .05x
x = 61 text messages

15) Let x = # of additional lbs
2.49 +1.24x = 11.17
x = 7 8 lbs

16) Let Louis = x
Jackie = 2x
Bruce = 5x - 60
2x = 5x - 60
x = 20

17) Let x = # of cans
80 + 4x = 100

18) Let x = # of visits
50 + 2x = 144
x = 47 visits

May 23-7:06 AM

Graphing Linear Function Topics

- Verifying solutions
- x- and y- intercepts → $x=0$ $\boxed{\text{x-intercept } y=0}$
  "b" value
- Slope - formula $m=\frac{y_2-y_1}{x_2-x_1}$ or $\frac{y_1-y_2}{x_1-x_2}$
  > from a graph, from two points & a table
- Slope of Vertical & Horizontal Lines $x=\#$ Undefined or No Slope
- Slope-Intercept Form $y=\#$ 0 slope
  > $y = mx + b$ $m=\text{slope}=\frac{\text{rise}}{\text{run}}$
  > $f(x) = mx + b$ $b=$ y-intercept
- Graphing Vertical and Horizontal Lines
- Graphing Linear functions

Nov 7-10:20 AM

1) Graphing using x & y Intercepts

$3x - 6y = 12$

x-intercept $y=0$

$3x-6(0)=12$

$3x=12$

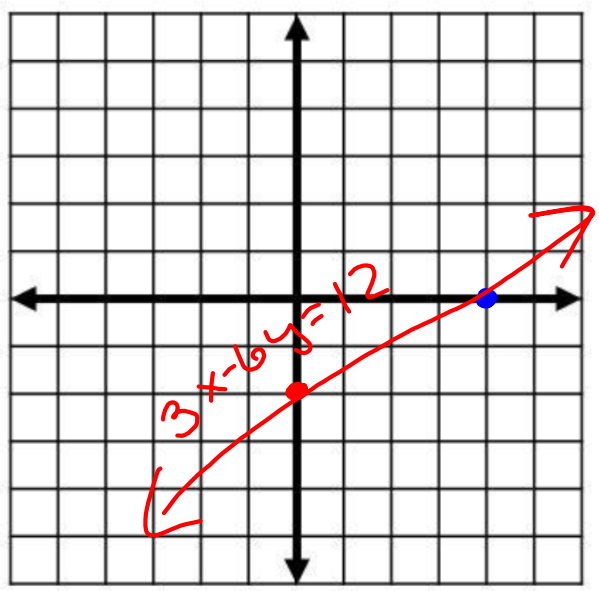
$x=4$ $(4,0)$

y-intercept $x=0$

$3(0)-6y=12$

$-6y=12$

$y=-2$ $(0,-2)$



Oct 27-10:54 AM

2. Find the slope given the table below.

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

X	Y
2	3
4	6
6	9
8	12

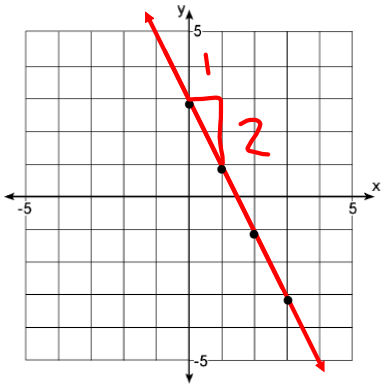
$(2, 3)$ $(4, 6)$

x_1 y_1 x_2 y_2

$$m = \frac{6-3}{4-2} = \frac{3}{2}$$

3. Find the slope given the graph below. Use the formula

$$\frac{\text{rise}}{\text{run}} = \frac{2}{1}$$



Apr 17-7:27 AM

Identify the slope and y-intercept of the line.

4. $3x - 2y = 6$

Slope-Intercept
$y = mx + b$

$$\cancel{-3x} \quad -3x$$

$$\frac{-2y}{-2} = \frac{-3x}{-2} + \frac{6}{-2}$$

$$\boxed{y = \frac{3}{2}x - 3}$$

$m = \frac{3}{2}$

$b = -3$

5. $5y + 3x = 10$

$$\cancel{-3x} \quad -3x$$

$$\frac{5y}{5} = \frac{-3x}{5} + \frac{10}{5}$$

$$\boxed{y = \frac{-3}{5}x + 2}$$

$m = -\frac{3}{5}$

$b = 2$

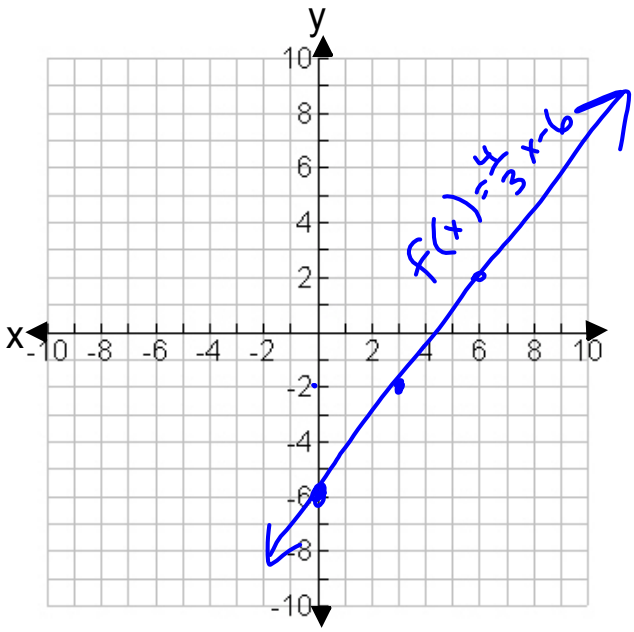
Jan 29-11:50 AM

6. Graph the line. Identify the slope & the y-intercept

$$f(x) = \frac{4}{3}x - 6$$

$b = -6$

$m = \frac{4}{3}$ $\frac{\text{rise}}{\text{run}}$



Jan 29-11:33 AM

Attachments

notebook(2981f49c1e).galleryitem