9/19



Notebook Check



Google Classroom

Check Classroom for Notebook Check assignments.

Homework Questions?

Solving for x with Fractions

1
$$\frac{2}{3}x - 15 = 65$$

 $+ 15$ $+ 16$
 $3\left[\frac{2}{3}x = 30\right]$
 $\frac{2x}{2} = \frac{240}{2}$
 $x = 120$

$$\Im_{0}\left[\frac{9}{10}x = -\frac{11}{10}\right]$$

$$\frac{9x}{9} = \frac{-11}{9}$$

$$x = -\frac{11}{9}$$

9
$$x - \frac{3}{9} = 15$$

 $3 \left[\frac{x - \frac{1}{3}}{3} = 15 \right]$
 $3x - 1 = 45$
 $+1 + 1$
 $3x = \frac{1}{3}$
 $x = \frac{1}{3}$
 $x = \frac{1}{3}$

$$25\left[2x = \frac{49}{5}\right]$$

$$\frac{10}{10} = 49$$

$$x = 49$$

$$4 5 \left[\frac{12}{5} = \frac{1}{3} + x \right]$$

$$3 \left[12 = \frac{5}{3} + 5 \right]$$

$$3 b = 5 + 15 \times$$

$$\frac{5}{5} = \frac{5}{15}$$

$$x = \frac{31}{15}$$

$$62\left[x-\frac{x-1}{2}=0\right]$$

$$2x-x+1=0$$

$$x+1=0$$

$$-1-1$$

$$x=-1$$

$$86\left[\frac{1}{2} + \frac{x}{3} = \frac{x}{2}\right]6$$

$$86\left[\frac{1}{2} + \frac{x}{3} = \frac{x}{2}\right]6$$

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

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

$$03\left[\frac{2x-1}{3}+3=x\right]$$

$$2x-(+9=3x)$$

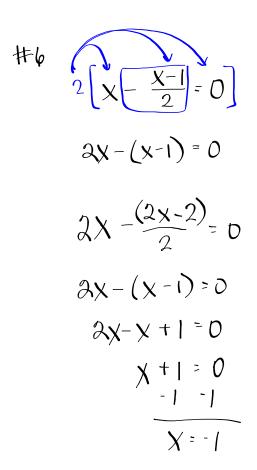
$$2x+3=3x$$

$$-2x$$

$$-2x$$

$$8=x$$

Homework Questions?

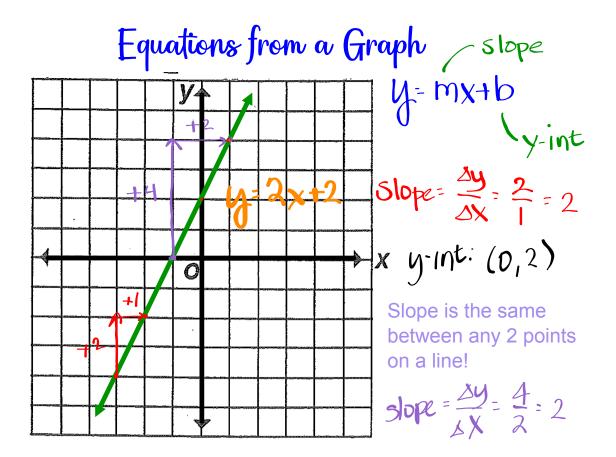


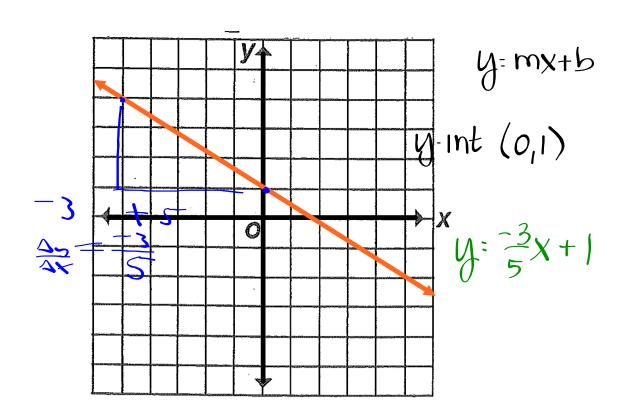
Other ways to look at why/how multiplying by 2 "clears the denominator:

$$\frac{2}{1}\left[\frac{(X-1)}{2}\right] = \frac{2X-2}{2} = X-1$$

$$2\left[\frac{\odot}{2}\right] = \odot$$

in this case \bigcirc equals (x - 1)



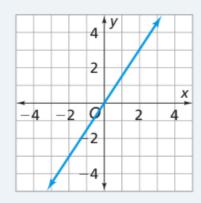


Complete 2.2 A-B

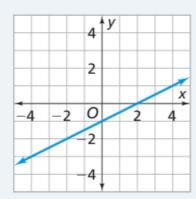
Use the data given in each question to find the equation of the linear function relating y and x.

A For the functions with the graphs below, find the slope and *y*-intercept. Then write the equations for the lines in the form y = mx + b.

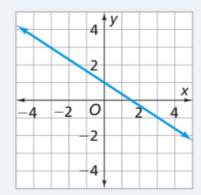
1.



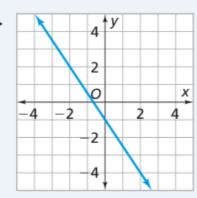
2.



3.



4.



Remember: y-int is the value of y when x = 0

3. Find equations for the linear functions that give these tables. Write them in the form y = mx + b.

a.	х	-2	-1	0	1	2
	y	-1	1	3	5	7

b.	Х	-6	-2	2	6	10
	у	-4	-2	0	2	4

- **2.** For each table, find the unit rate of change of y compared to x.
- **3.** Does the line represented by this table have a slope that is greater than or less than the equations you found in part 1(a) and part 1(b)?

х	-1	0	1	2	3
У	4	1	-2	-5	-8

Homework

Finish classwork