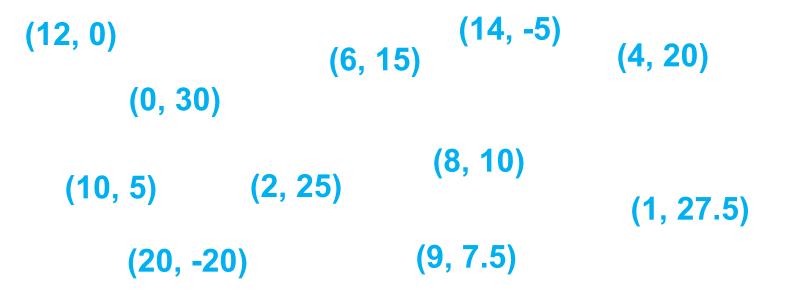
Created by Max Robinson

Warmup $\frac{12}{6 \times 3! + 6} \div 7$

Make sure there is a whiteboard, marker, & eraser in your desk.

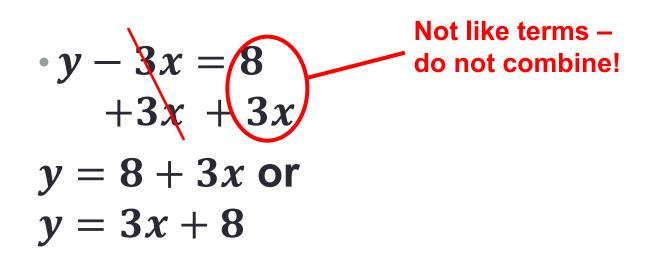
1. Find <u>as many points as you can</u> that would be on the graph of the equation **5x + 2y = 60**.



Guided Notes from yesterday...

Another strategy...

- If an equation is not in slope-intercept form, you can PUT it in slope intercept form:
- (Get y by itself!)



Getting y by itself + 2y = 20 g **4**× 2y = 20 - 4x=8-× y=10-22

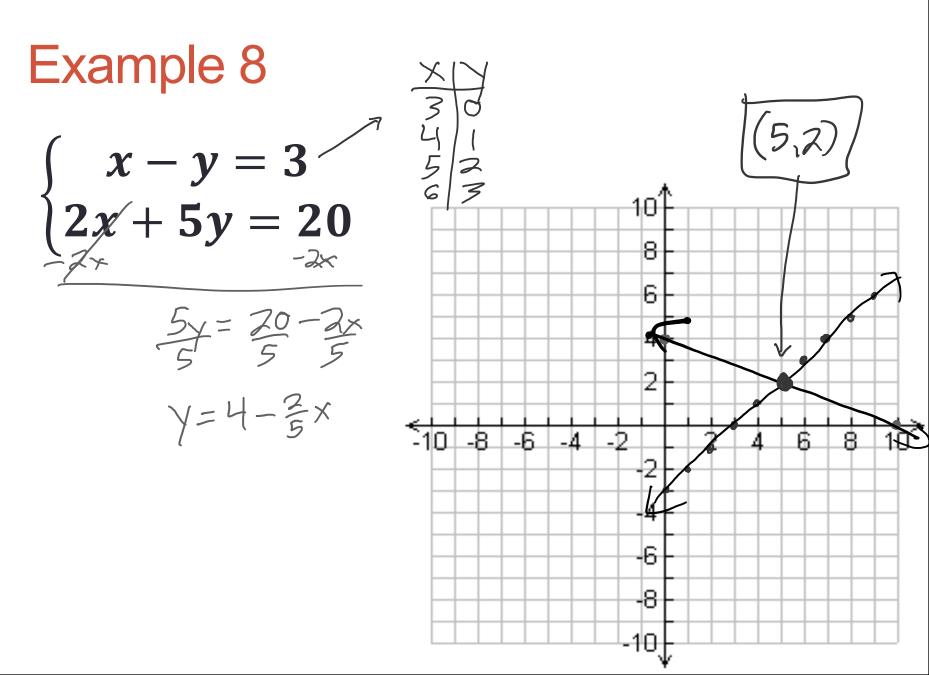
 $y + 4 = \frac{1}{2}x$ ZX

To graph an equation that is NOT in slope-intercept form:

 Make a table and figure out numbers that work in the equation (at least 2 points)

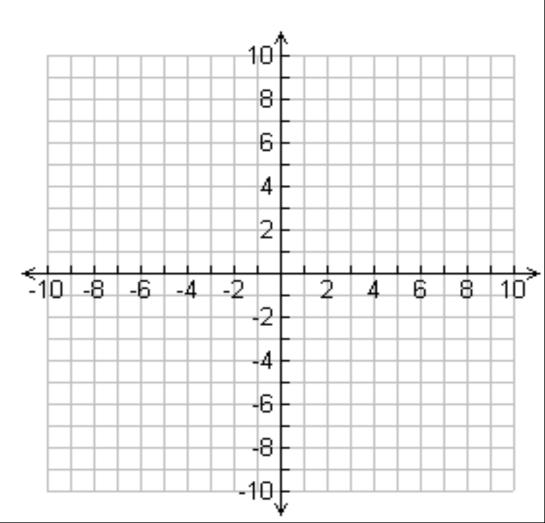
OR

 Get y by itself, then graph using slope-intercept rules

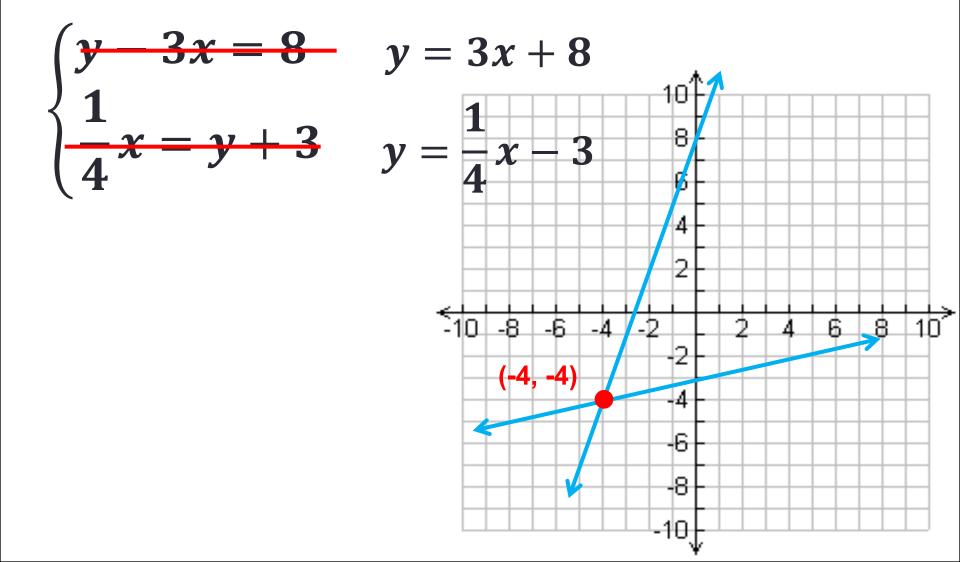


Example 9

$$\begin{cases} y - 3x = 8\\ \frac{1}{4}x = y + 3 \end{cases}$$



Example 9

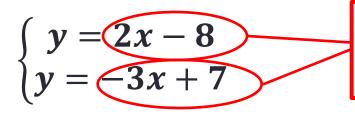


A little bit of time...

• To finish/check/compare #13, 14, 15

Another way to solve systems...

Look at #2 on your homework.



Since y = both, you can set them equal to each other

$$2x-8=-3x+7$$

Then solve...

- x = 3 (Does this match your original answer?)
- How can we get y?

Table of Contents

- p. 1 Converting Fractions and Decimals (1.1)
- p. 2 Roots (1.8 & 1.9)
- p. 3 Solving x² and x³ Equations (1.8)
- p. 4 Rational vs. Irrational (1.1)
- p. 5 What is a function?
- p. 6 Function Notation: f(x)
- p. 7 Linear vs. Nonlinear Functions
- p. 8 Constant Rate of Change
- p. 9 Slope
- p. 10 Graphing Linear Functions Looking for Patterns
- p. 11 Slope-Intercept Form
- p. 12 Linear/Nonlinear Tables and Proportional Relationships
- p. 13 Slope-Intercept Story Problems
- p. 14 1 and 2-Step Equations
- p. 15 Equations w/ Variables on Both Sides
- p. 16 Equations with Distributive Property
- p. 17 Equations with No Solution or Infinite Solutions
- p. 18 Solving Systems of Equations by Graphing
- p. 19 Solving Systems by Substitution

Solving Systems by Substitution

Objective:

-Use a new strategy (substitution) to solve systems of equations. (No graphs, just pencil/paper) 19

WHITEBOARDS

Solve the System of Equations using Substitution

x + y = 10 y = 2



Solve the System of Equations using Substitution 5x + 5y = 100y = 5

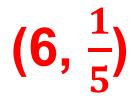


Solve the System of Equations using Substitution

y = x + 100 y = 45

(-55, 45)

Solve the System of Equations using Substitution 3x + 10y = 20x = 6



Solve the System of Equations using Substitution 4x + y = 24v = (2x)Now find y: y = 2**x** 4x + y = 24v = 2(4) 4x + 2x = 24y = 86x = 24(4, 8) $\mathbf{x} = \mathbf{4}$

Homework (Due Monday)

• p.247 (1 – 10, 14, 15)