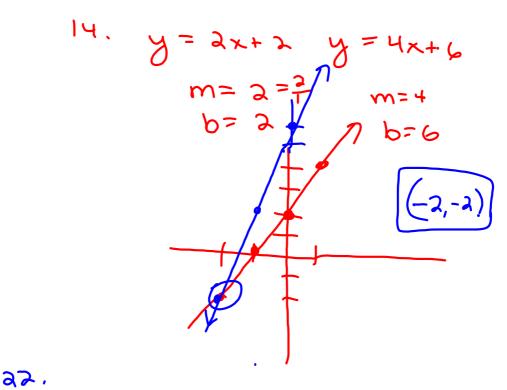
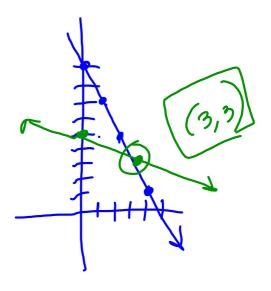
Section 6-2.notebook

April 03, 2018



$$\frac{3x+3y=15}{-3x} = \frac{3x+3y=15}{3} = \frac{3x+5}{3} = \frac{3x+$$



Warm-up: Yikes!!

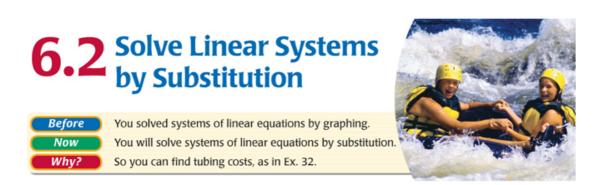
Suppose
$$a = 2b + 3$$
, $b = 4c + 5$, $c = 6d + 7$, and $d = 8$. What is the value of a?

$$C = 6 (8) + 7$$

$$C = 6 (8) + 7$$

$$C = 55$$

$$A = 4 (335) + 3$$



GOAL: Solve systems of linear equations exactly and approximately.

Example 1!

$$x = 3y + 5$$

$$28 - 4y = 12$$

$$(3y+5) - 4y = 12$$

$$(4x+1) - 4y = 12$$

$$(4x+1) - 4y = 12$$

$$(5y+1) - 4y = 12$$

$$(7x+1) - 4y = 12$$

$$(7$$

Example 2!

$$4x - (x - 1) = 19$$

$$3x + 1 = 19$$

$$-1$$

$$3x = 18$$

$$3x = 18$$

$$3 = 6$$

Example 3-tougher!

$$20x-30y = -50$$

$$x + 2y = 1$$

$$-3y - 3y$$

$$30(1-2y)-30y = -50$$

$$30-40y-30y = -50$$

$$-30-70y=-50$$

$$-30-70y=-50$$

$$-30-70y=-50$$

$$-30-70y=-50$$

$$-30-70y=-50$$

$$-30-70y=-50$$

$$-30-70y=-50$$

$$-30-70y=-50$$

$$-30-70y=-70$$

$$-10-70y=-70$$

Example 4-same idea!

$$5x + 4y = 32$$

$$9x - y = 33$$

$$5x + 4(-33) + 9x = 3$$

$$5x + 4(-33) + 9x = 3$$

$$-9x - y = 33$$

$$-9x - y = 33$$

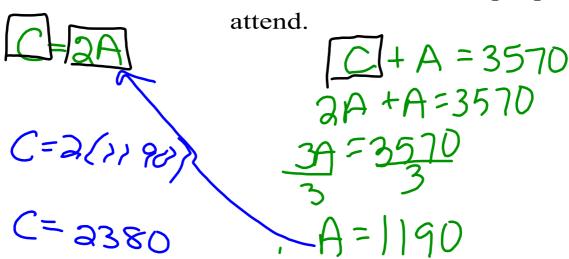
$$-9x - -9x$$

$$-7 = 33 - 9x$$

$$-7 = 7x$$

Last One: Word Problem!

The owners of a carnival have found that twice as many children as adults come to the carnival. Solve a system to estimate the number of children and the number of adults at the carnival when 3,570 people



Homework 6.2: p.381: 4,5,6,10,16,28