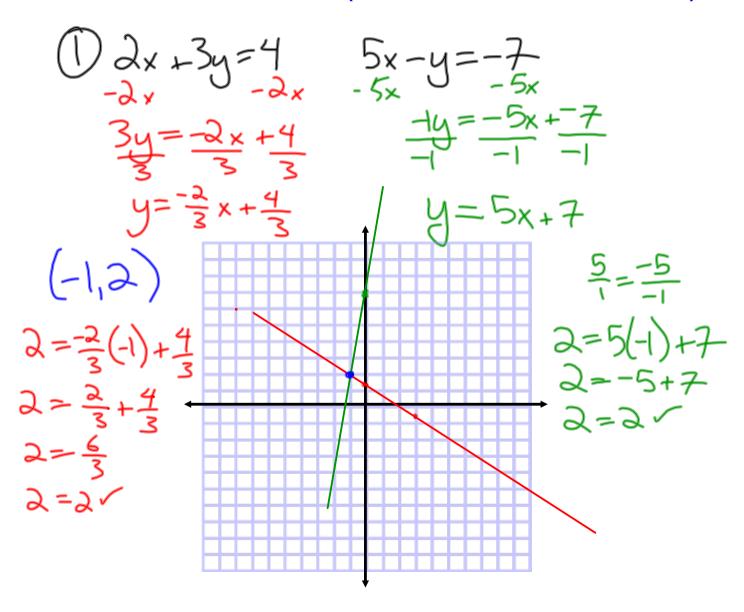
Homework Review (7.3 and Quiz Review)



When to add, when to subtract:

$$3x + 2y = 7$$

$$4x = 2y = 5$$

$$7x = 12$$

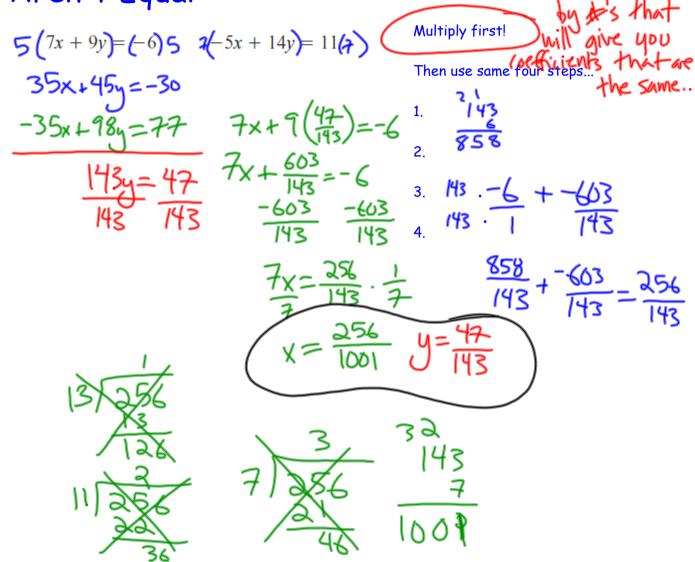
$$3x + 2y = 7$$

$$-4x + 2y = 5$$

$$-x = 2$$

Subtract when signs are the same

Adding/Subtracting When Coefficients Aren't Equal:



16.
$$-3x - 4y = 27$$
 17. $2x + 7y = 2$ **18.** $3x - 5y = -16$ $5x - 6y = -7$ $5x - 2y = 83$ $2x - 3y = -8$

17.
$$2x + 7y = 2$$

 $5x - 2y = 83$

18.
$$3x - 5y = -16$$

 $2x - 3y = -8$

Hockey Game Two families go to a hockey game. One family purchases two adult tickets and four youth tickets for \$28. Another family purchases four adult tickets and five youth tickets for \$45.50. Let *x* represent the cost in dollars of one adult ticket and let *y* represent the cost in dollars of one youth ticket.

- **a.** Write a linear system that represents this situation.
- **b.** Solve the linear system to find the cost of one adult and one youth ticket.
- **c.** How much would it cost two adults and five youths to attend the game?

Solution method When to use Example: "Keys" to solving

Homework:

Linear Systems Practice Worksheet and Study for quiz ...

p. 455, 10-18, 20-30 even, 37, 38

$$\left(\frac{638}{19}, \frac{495}{19}\right)$$
 $\frac{1}{2} \times + \frac{1}{5}y = 22$
 $2x - 3y = -11$

$$\frac{1}{2}x + \frac{1}{5}y = 22$$

$$2x - 3y = -11$$

