lesson 7.2

Class Notes
If there was no class lecture this week, write a paragraph about what you learned and/or questions about what you didn't understand.

Topic: _____

Name: _____

Class: _____

Period: _____

Date: _____

Questions/Main Ideas:

Notes:

AF 4.1 Solving multi-step equations

Simplifying equations:
- what was first step in a two-step equation?
  need to simplify

What does it mean to simplify?

Simplify
- combine like terms
- write an equivalent expression is the fewest terms possible

combine like terms under subtraction →

Example

$3m + 4 - 2m = -73$

$3m - 2m + 4 = -73$

$m + 4 = -73$

$-4 \quad -4$

$m = -77$

$-4m - 3m + 6 = -13$

$-7m + 6 = -13$

$-6 \quad -6$

$\frac{-7m}{-7} = \frac{-21}{-7}$

$m = 3$

Summary:

Questions/Main Ideas:	Notes:
	lets say we know that two consecutive ~~integers~~ integers have a sum of 23. If I want the two numbers how can I find them out?
If you have an integer n what would be the next number?	well let our first number be n.
	The next consecutive integer could be presented as $n+1$.
	So $n + (n+1) = 23$
	two consecutive integers
	$n + (n+1) = 23$
	$2n + 1 = 23$
	$-1 \quad -1$
	$\frac{2n}{2} = \frac{22}{2}$
	$n = 11$
	So our numbers are 11 and 12
	Example
3 steps to solve equation	$2(5x-3) = 14$ (1) (Distribute first)
	$2(5x) - 2(3) = 14$
	$10x - 6 = 14$ (2) undo subtraction
	$+6 \quad +6$
	$\frac{10x}{10} = \frac{20}{10}$ (3) undo multiplication
	$x = 2$
Summary:	

Questions/Main Ideas:	Notes:

General steps

1. use distributive property if needed
2. combine like terms
3. undo subtraction or addition
4. undo multiplication or division
5. simplify

Example

$$9(2c+5)+3c=-75$$
$$9(2c)+9(5)+3c=-75$$
$$18c+45+3c=-75$$
$$21c+45=-75$$
$$-45\quad -45$$
$$\frac{21c}{21}=\frac{-120}{21}$$
$$c=-\frac{40}{7}$$

$$3=\frac{1}{4}(m-4)+\frac{1}{4}m$$
$$3=\frac{1}{4}m-1+\frac{1}{4}m$$
$$3=\frac{1}{2}m-1$$
$$+1\quad +1$$
$$4=\frac{1}{2}m$$
$$(2)(4)=(\frac{1}{2}m)2$$
$$8=m$$

Summary:

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HW pg 343-344 (12-34 even)