Name:	Date:
Notes	

Algebra Section 3.8 Pages 184-189

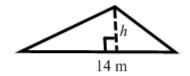
**Goal:** "I will rewrite equations and formulas"

**Ex:** Solve ax + b = c for x This means to:



## Solve the following equations for the given variable.

**Ex:** Solve  $A = \frac{1}{2}bh$  for h Find h if the shown triangle has an area of 64.4 m<sup>2</sup>



**Ex:** p + qx = r for x

**Ex:** A = lw for l, then find l if A = 351 cm<sup>2</sup> and w = 13 cm

**Ex:** You are visiting Toronto over the weekend and look up a weather forecast. Find the low temperatures for Saturday and Sunday in degrees Fahrenheit. First rewrite the conversion formula so *F* is isolated:

$$C = \frac{5}{9}(F - 32)$$

	Friday	Saturday	Sunday
Forecast	Sunny	Sunny	Partly Cloudy
High	21° <i>C</i>	22° <i>C</i>	16°€
Low	13°€	14° <i>C</i>	10° <i>C</i>

## \*\*RECALL THAT ALL FUNCTIONS START WITH: \*\*

So when you are rewriting an equation so it is in function form that means to isolate:

**Ex:** 
$$-2x + 3y = 6$$

**Ex:** 
$$3x + 2y = 8$$

**Ex:** 
$$4x - 2y = -6$$

**Ex:** 
$$-3x - y = 7$$

**Ex:** 
$$8x + 2y = -2$$

**Ex:** 
$$-5x - y = 10$$