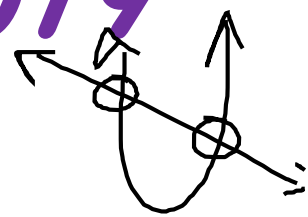# Wednesday, April 10, 2019

- Warm-up

  Try Substitution

  - Solve and check the following system:

$(-7, 100)$

$(-10, 130)$

$$y = x^2 + 7x + 100$$

$$y = 30 - 10x$$

$y = 30 - 10(-7)$

$y = 30 + 70$

$y = 100$

$y = 30 - 10(-10)$

$y = 30 + 100$

$y = 130$

$$x^2 + 7x + 100 = 30 - 10x$$
$$+10x \quad -30 \quad -30 + 10x$$
$$\overline{x^2 + 17x + 70 = 0}$$

$$(x + 7)(x + 10) = 0$$

$$x + 7 = 0$$
$$-7 \; -7$$
$$x = -7$$

$$x + 10 = 0$$
$$-10 \; -10$$
$$x = -10$$

Check Solutions

$100 = (-7)^2 + 7(7) + 100$

$= 49 + -49 + 100$

$100 = 100$

$100 = 30 - 10(-7)$

$100 = 30 + 70$

$100 = 100$

$130 = (-10)^2 + 7(-10) + 100$

$= 100 - 70 + 100$

$130 = 130$

$130 = 30 - 10(-10)$

$130 = 30 + 100$

$130 = 130$

- Review Sheet

Objectives

Content: I will <u>practice</u> solving **systems of equations** with **linear** and **quadratic equations**.

Social: I will <u>be respectful</u> of my classmates who are trying to prepare.

Language: I will <u>read</u> questions carefully and <u>review</u> the content from the unit.