MONDAY, JANUARY 14, 2019

Quadratic Formula: $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

- Warm-up
  - Solve the following for x:

$x^2 + 8x + 6 = 0$ $ax^2 + bx + c = 0$ $x^2 - 7x + 12 = 0$

use quadratic formula ↑ wu

$(x-4)(x-3) = 0$

$x - 4 = 0$ $x - 3 = 0$
$+4 \ +4$ $+3 \ +3$
$x = 4$ $x = 3$

- More forms of quadratics
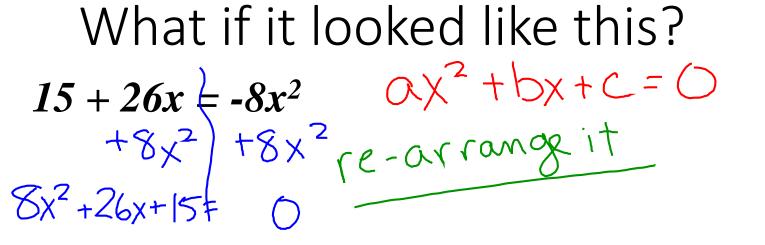
<u>**Objectives**</u>:
Content: I will solve quadratics using various methods.
Social: I will ask good questions and try the content.
Language: I will write clear notes and verbally explain my reasoning to others.

How would I solve this one?

$$2x^2 + 9x + 10 = 0$$

$a = 2$

$b = 9$

$c = 10$

$\sqrt{0} = 0$

$\sqrt{-8}$ non real answer

What if it looked like this?

$$15 + 26x = -8x^2$$

$$ax^2 + bx + c = 0$$

$$+8x^2 \quad +8x^2$$

re-arrange it

$$8x^2 + 26x + 15 = 0$$

REAR ADMIRAL
GRACE HOPPER

Practice…

Showing work on your own paper

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