Tuesday, January 15, 2019

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

- Warm-up
  - Solve the following quadratic: $x^2 - 6x + 8 = 0$

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

$-4, -2$

$a = 1$, $b = -6$, $c = 8$

$$x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4 \cdot 1 \cdot 8}}{2(1)}$$

$$= \frac{6 \pm \sqrt{36 - 32}}{2}$$

$$= \frac{6 \pm \sqrt{4}}{2}$$

$\frac{6+2}{2} = \frac{8}{2} = 4$

$\frac{6-2}{2} = \frac{4}{2} = 2$

$(x-4)(x-2) = 0$

$x - 4 = 0$ (+4 +4) $x - 2 = 0$ (+2 +2)

$x = 4$ $x = 2$

- More Practice & Review

Objectives:

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.

Practice…

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When finished – homework time

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