5.2

Topic: The Quadratic Formula

How can you solve a quadratic equation and apply it with real world applications?

Jun 10-9:15 AM

The Quadratic Formula

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

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

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Step 1: Find A, B, C

Step 2:Find the discriminant

Step 3: Plug in discriminant and simplify

Dec 16-8:39 AM

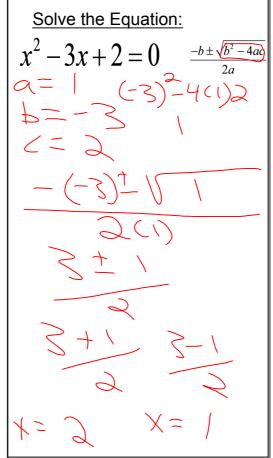
Solve the Equation:

$$x^{2}-5x-14=0$$

$$A = 1$$

$$A = -5$$

$$A$$



Feb 8-8:57 AM

Solve the Equation:

$$7x^{2} = 2x + 9$$

$$0 = 2 + 49 - 7 + 2$$

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$$2a$$

$$2a$$

$$2 - 4(-7)(9)$$

$$2 - 56$$

$$-2 + 16$$

$$-14$$

$$-2 + 16$$

$$-14$$

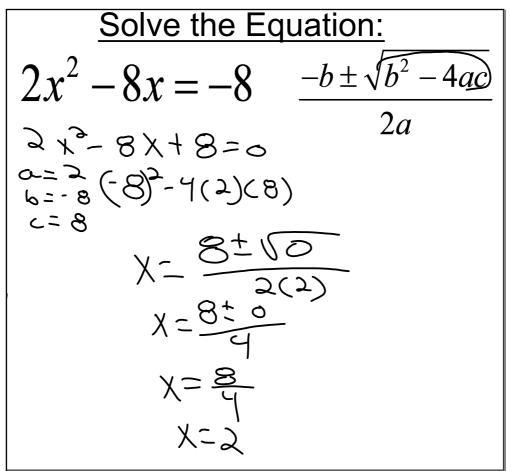
$$+=-1$$

$$1.28$$

Dec 16-8:42 AM

$$\lambda = -(x - 1)(x - 2)$$

Feb 9-12:27 PM



Dec 16-8:52 AM

Solve the Equation:

$$x^{2}-1=-6x$$

$$x^{2}+6x-1=0$$

$$a=1 \qquad b=6 \qquad 2a$$

$$2a$$

$$x=-6\pm \sqrt{40}$$

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$$x=-6\pm 6.3245$$

$$-6.1623$$

Feb 8-9:13 AM