Name: Wilber C
Period:
Date: Chapter 13.1
Solving Quadratic Equations Using Quadratic Fo

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

Standard Form: $ax^2 + bx + c = 0$

Solve each equation with the quadratic formula.

1) $3n^2 - 5n - 8 = 0$ $3n^2 - 5 - 8 = 0$

2) $x^2 + 10x + 21 = 0$

3) $10x^2 - 9x + 6 = 0$

May 4th 12:11:39 am

SESSION STARTED AT 4:12 PM

May 4th 12:12:45 am

Ok

May 4th 12:14:24 am

Hello Wilber!

May 4th 12:14:33 am

Hello

May 4th 12:14:44 am

It looks like we need to solve the quadratic equation using quadratic formula

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Have you already tried any work on this problem?

May 4th 12:15:03 am

No

May 4th 12:15:24 am

Ok, we will work together to find the solution!

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What do you think we could try first?

May 4th 12:16:38 am

I don't know

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Do you know the quadratic formula?

May 4th 12:17:08 am

Yes

May 4th 12:17:20 am

Ok, what does a stand for?

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2

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Where did 2 come from?

May 4th 12:17:50 am

I don't know I guessed

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Ok, let's figure that out together. In the quadratic formula "a" is the value of the coefficient of x^2 (if there are no numbers in front of x^2 we assume that a is 1), b is the coefficient of x and c is the independent term

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for example, suppose we are given the equation x^2 + 5x - 4 = 0 ... a would be 1, the value of b is 5 and the value of c is -4

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Does that make sense to you so far?

May 4th 12:21:29 am

No

May 4th 12:21:49 am

No worries, could you please tell me what is exactly confusing to you?

May 4th 12:22:04 am

Everything sorry

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Let me show you an example

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Did you receive the image?

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

$x^2 - 3x + 2 = 0$

There are no numbers in front of x^2 So, we assume that a is 1

Plug those values in the formula to get:

$$\frac{-(-3) \pm \sqrt{(-3)^2 - 4(1)(2)}}{2(1)}$$

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Yes

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In that example I worked with the equation x^2 - 3x + 2 = 0 as you can see the value of a is 1, the value of b is -3 and the value of c is 2... Once we know those values we need to plug in the formula, then we will be able to solve

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Is that more clear?

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Student ended session

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