Algebra 1

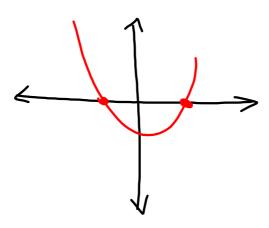
Chapter 9

Section 9-3

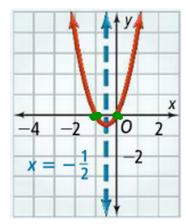
Mar 31-10:28 PM

The zeros (or roots) of a function are the x-intercepts of a graph. They can be found by identifying where the graph crosses the x-axis or by using the quadratic equation:

$$ax^2 + bx + c = 0 \qquad (y=0)$$

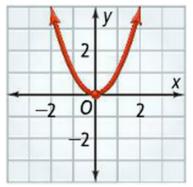


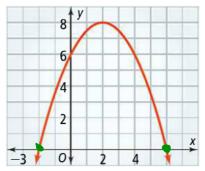
Find the zeros of each function based on the graph.



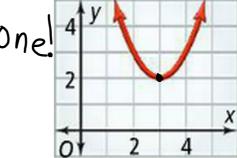
$$\begin{array}{c} x = O \\ x = -1 \end{array} \qquad X = O$$











Apr 1-8:45 AM

Finding the zeros when b = 0 and c < 0

$$ax^{2} + (0)x - c = 0$$

 $ax^{2} - c = 0$

$$ax^{2} - c = 0$$

Finding the zeros when b = 0

$$2x^2 - 18 = 0$$

Add "c" to both sides

- Divide both sides by "a"
- Take the square root of both sides
- $x = \pm 3$

> 2 answers, plus/minus

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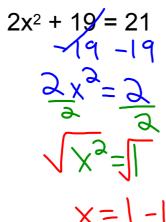
Solve the equations by taking square roots

$$\sqrt{x^2 = \sqrt{16}}$$

$$\times = 4 - 4$$

$$x^2 - 25 = 0$$

$$x^2 + 36 = 0$$



Solve the equations by taking square roots

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

$$5 \times 2 = 0$$

$$X = 0$$

$$X = 0$$

$$27x^{2} - 12 = 0$$

$$+12 + 12$$

$$27x^{2} = 12$$

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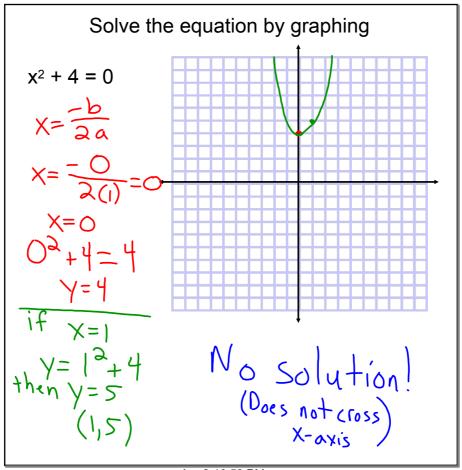
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