Solving a quadratic equation a case study

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The Problem

Picturing the Solution

Some Algebra

The Formula

Your paycheck has been held up, and they keep asking,

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If that doesn't convince the admin type, what will?

Now, it is only a matter to select a quadratic equation which will impress them.

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- **3** $x^2 3x 1 = 0$ (sort of fancy... just right!)

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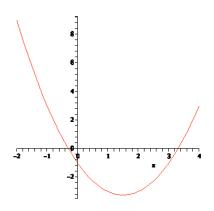
Let's try! If they buy this, we are done. So plot $y = x^2 - 3x - 1$

5 / 10

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"Oh, for @#%& sake!"

$$0 = x^2 - 3x - 1$$

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Not likely...



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and
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$$ax^2 + bx + c = 0 \Longrightarrow x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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and tell them to try this first next time...