



## Quadratic Formula - Equation to Decimal Roots

1 What roots (solutions) would this quadratic equation have?

$$y = -2x^2 + 1 - x$$

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|--------------------------------|--------------------------------|--------------------------------|----------------------------|
| A<br>$x = 5.76$<br>$x = -4.12$ | B<br>$x = 1.97$<br>$x = -5.27$ | C<br>$x = 3.68$<br>$x = -2.78$ | D<br>$x = -1$<br>$x = 0.5$ |
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2 What roots (solutions) would this quadratic equation have?

$$y = 4x^2 - 4 - 4x$$

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|--------------------------------|-------------------------------|-------------------------------|---------------------------------|
| A<br>$x = 1.62$<br>$x = -0.62$ | B<br>$x = 5.93$<br>$x = 4.69$ | C<br>$x = 2.47$<br>$x = 0.51$ | D<br>$x = -2.53$<br>$x = -2.93$ |
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3 What roots (solutions) would this quadratic equation have?

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

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| A<br>$x = -4.45$<br>$x = -1.3$ | B<br>$x = 2.46$<br>$x = 0.68$ | C<br>$x = -1.14$<br>$x = -4.78$ | D<br>$x = 1.78$<br>$x = -0.28$ |
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4 What roots (solutions) would this quadratic equation have?

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

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| A<br>$x = -3.19$<br>$x = -4.38$ | B<br>$x = -1.89$<br>$x = 5.72$ | C<br>$x = 0.58$<br>$x = -0.58$ | D<br>$x = -4.07$<br>$x = 0.9$ |
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5 What roots (solutions) would this quadratic equation have?

$$y = -5x + x^2 + 1$$

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| A<br>$x = 5.65$<br>$x = 1.31$ | B<br>$x = 4.26$<br>$x = -3.12$ | C<br>$x = -1.59$<br>$x = 4.24$ | D<br>$x = 4.79$<br>$x = 0.21$ |
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6 What roots (solutions) would this quadratic equation have?

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

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| A<br>$x = 2.42$<br>$x = -1.85$ | B<br>$x = 1$<br>$x = -3$ | C<br>$x = -3.82$<br>$x = -0.93$ | D<br>$x = -2.9$<br>$x = -1.7$ |
|--------------------------------|--------------------------|---------------------------------|-------------------------------|

7 What roots (solutions) would this quadratic equation have?

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

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| A<br>$x = -0.67$<br>$x = 1$ | B<br>$x = -4.53$<br>$x = 3.45$ | C<br>$x = -0.5$<br>$x = 3.43$ | D<br>$x = -1.64$<br>$x = -1.27$ |
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8 What roots (solutions) would this quadratic equation have?

$$y = 4x^2 - 5 - 2x$$

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|------------------------------|--------------------------------|--------------------------------|--------------------------------|
| A<br>$x = 1.4$<br>$x = -0.9$ | B<br>$x = 5.22$<br>$x = -2.27$ | C<br>$x = 3.49$<br>$x = -3.12$ | D<br>$x = 2.89$<br>$x = -2.29$ |
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