



## Quadratic Formula - Equation to Radical Roots



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

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

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|-------------------------------|--------------------------------|---------------------------|---------------------------------|
| A<br>$x = 3.86$<br>$x = 4.15$ | B<br>$x = -5.61$<br>$x = 4.53$ | C<br>$x = 2.5$<br>$x = 0$ | D<br>$x = -5.76$<br>$x = -1.94$ |
|-------------------------------|--------------------------------|---------------------------|---------------------------------|

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

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

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|----------------------------|---------------------------------|-------------------------------|--------------------------------|
| A<br>$x = 1$<br>$x = -1.5$ | B<br>$x = -5.82$<br>$x = -1.42$ | C<br>$x = 0.55$<br>$x = -1.5$ | D<br>$x = -2.87$<br>$x = 4.97$ |
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3 What roots (solutions) would this quadratic equation have?

$$y = -3x^2 - x + 4$$

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|---------------------------------|-----------------------------|---------------------------------|-------------------------------|
| A<br>$x = -0.33$<br>$x = -5.59$ | B<br>$x = -1.33$<br>$x = 1$ | C<br>$x = -5.25$<br>$x = -4.26$ | D<br>$x = 2.37$<br>$x = 4.49$ |
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4 What roots (solutions) would this quadratic equation have?

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

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|--------------------------------|--------------------------------|--------------------------------|-------------------------------|
| A<br>$x = -0.69$<br>$x = 3.77$ | B<br>$x = -0.48$<br>$x = 3.23$ | C<br>$x = -1.12$<br>$x = 0.72$ | D<br>$x = 4.9$<br>$x = -3.93$ |
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5 What roots (solutions) would this quadratic equation have?

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

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|---------------------------------|--------------------------------|--------------------------------|--------------------------------|
| A<br>$x = -0.61$<br>$x = -4.41$ | B<br>$x = 1.31$<br>$x = -0.31$ | C<br>$x = -2.19$<br>$x = 1.85$ | D<br>$x = -3.82$<br>$x = 1.39$ |
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6 What roots (solutions) would this quadratic equation have?

$$y = -5x^2 - 4x + 3$$

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|--------------------------------|---------------------------------|--------------------------------|---------------------------------|
| A<br>$x = -2.6$<br>$x = -4.41$ | B<br>$x = -2.96$<br>$x = -2.61$ | C<br>$x = -1.27$<br>$x = 0.47$ | D<br>$x = -1.69$<br>$x = -3.91$ |
|--------------------------------|---------------------------------|--------------------------------|---------------------------------|

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

$$y = 3x^2 - 4x - 4$$

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|---------------------------------|-------------------------------|-----------------------------|---------------------------------|
| A<br>$x = -2.19$<br>$x = -5.35$ | B<br>$x = 1.65$<br>$x = 1.21$ | C<br>$x = 2$<br>$x = -0.67$ | D<br>$x = -3.95$<br>$x = -2.59$ |
|---------------------------------|-------------------------------|-----------------------------|---------------------------------|

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

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

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|--------------------------------|---------------------------------|--------------------------------|--------------------------------|
| A<br>$x = -0.71$<br>$x = 0.71$ | B<br>$x = -2.65$<br>$x = -5.01$ | C<br>$x = -3.08$<br>$x = 4.31$ | D<br>$x = 5.69$<br>$x = -5.28$ |
|--------------------------------|---------------------------------|--------------------------------|--------------------------------|