



Quadratic Formula - Equation to Decimal Roots

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

$$y = 2x^2 + x$$

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|-------------------------------|--------------------------------|--------------------------------|----------------------------|
| A
$x = 1.34$
$x = 1.88$ | B
$x = 1.46$
$x = -3.68$ | C
$x = 2.01$
$x = -2.72$ | D
$x = 0$
$x = -0.5$ |
|-------------------------------|--------------------------------|--------------------------------|----------------------------|

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

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

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|--------------------------------|---------------------------------|---------------------------------|-------------------------------|
| A
$x = -0.79$
$x = 3.79$ | B
$x = -2.34$
$x = -1.07$ | C
$x = -5.98$
$x = -1.51$ | D
$x = 3.75$
$x = 0.31$ |
|--------------------------------|---------------------------------|---------------------------------|-------------------------------|

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

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

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|--------------------------------|--------------------------------|--------------------------------|----------------------------|
| A
$x = 4.04$
$x = -2.03$ | B
$x = -2.42$
$x = 2.46$ | C
$x = -3.75$
$x = 1.81$ | D
$x = 0$
$x = -0.4$ |
|--------------------------------|--------------------------------|--------------------------------|----------------------------|

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

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

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|--------------------------------|-----------------------------|--------------------------------|--------------------------------|
| A
$x = 2.48$
$x = -0.01$ | B
$x = 1$
$x = -0.33$ | C
$x = 0.01$
$x = -1.42$ | D
$x = 2.53$
$x = -3.44$ |
|--------------------------------|-----------------------------|--------------------------------|--------------------------------|

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

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

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|------------------------------|-------------------------------|--------------------------------|-------------------------------|
| A
$x = 5.6$
$x = 3.91$ | B
$x = 5.67$
$x = 3.34$ | C
$x = 0.88$
$x = -0.68$ | D
$x = 3.32$
$x = 0.75$ |
|------------------------------|-------------------------------|--------------------------------|-------------------------------|

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

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

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|--------------------------------|-------------------------------|--------------------------------|--------------------------------|
| A
$x = 1.28$
$x = -3.17$ | B
$x = -3.47$
$x = 2.1$ | C
$x = -5.28$
$x = 2.66$ | D
$x = 1.13$
$x = -0.88$ |
|--------------------------------|-------------------------------|--------------------------------|--------------------------------|

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

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

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|--------------------------------|---------------------------------|--------------------------------|------------------------------|
| A
$x = 2.74$
$x = -3.77$ | B
$x = -2.75$
$x = -1.47$ | C
$x = 1.22$
$x = -1.22$ | D
$x = 0.06$
$x = 0.6$ |
|--------------------------------|---------------------------------|--------------------------------|------------------------------|

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

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

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|--------------------------------|---------------------------------|-------------------------------|-------------------------------|
| A
$x = 5.33$
$x = -0.43$ | B
$x = -1.58$
$x = -2.23$ | C
$x = 4.56$
$x = 0.44$ | D
$x = 2.33$
$x = 3.85$ |
|--------------------------------|---------------------------------|-------------------------------|-------------------------------|