



Quadratic Formula - Equation to Integer Roots

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

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

- | | | |
|--------------------------|--------------------------|---------------------------|
| A
$x = 4$
$x = -6$ | B
$x = -1$
$x = 1$ | C
$x = -5$
$x = -3$ |
|--------------------------|--------------------------|---------------------------|

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

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

- | | | | |
|---------------------------|--------------------------|---------------------------|--------------------------|
| A
$x = -4$
$x = -5$ | B
$x = 0$
$x = -3$ | C
$x = -1$
$x = -4$ | D
$x = 1$
$x = -3$ |
|---------------------------|--------------------------|---------------------------|--------------------------|

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

$$y = x^2 - 1$$

- | | | | |
|--------------------------|--------------------------|--------------------------|---------------------------|
| A
$x = 1$
$x = -1$ | B
$x = 5$
$x = -1$ | C
$x = -5$
$x = 5$ | D
$x = -4$
$x = -2$ |
|--------------------------|--------------------------|--------------------------|---------------------------|

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

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

- | | | | |
|--------------------------|--------------------------|---------------------------|--------------------------|
| A
$x = -1$
$x = 3$ | B
$x = 2$
$x = -5$ | C
$x = -5$
$x = -5$ | D
$x = -2$
$x = 0$ |
|--------------------------|--------------------------|---------------------------|--------------------------|

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

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

- | | | | |
|-------------------------|---------------------------|---------------------------|-------------------------|
| A
$x = 4$
$x = 0$ | B
$x = -6$
$x = -1$ | C
$x = -4$
$x = -4$ | D
$x = 4$
$x = 5$ |
|-------------------------|---------------------------|---------------------------|-------------------------|

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

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

- | | | | |
|---------------------------|-------------------------|--------------------------|--------------------------|
| A
$x = -5$
$x = -5$ | B
$x = 3$
$x = 5$ | C
$x = -6$
$x = 5$ | D
$x = 4$
$x = -1$ |
|---------------------------|-------------------------|--------------------------|--------------------------|

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

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

- | | | | |
|--------------------------|--------------------------|-------------------------|--------------------------|
| A
$x = 1$
$x = -4$ | B
$x = -1$
$x = 1$ | C
$x = 1$
$x = 2$ | D
$x = -3$
$x = 0$ |
|--------------------------|--------------------------|-------------------------|--------------------------|

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

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

- | | | | |
|-------------------------|-------------------------|---------------------------|-------------------------|
| A
$x = 3$
$x = 0$ | B
$x = 0$
$x = 1$ | C
$x = -1$
$x = -3$ | D
$x = 1$
$x = 3$ |
|-------------------------|-------------------------|---------------------------|-------------------------|