



Quadratic Formula - Equation to Integer Roots

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

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

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

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

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

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|------------|------------|-----------|-----------|
| A $x = -5$ | B $x = -2$ | C $x = 5$ | D $x = 0$ |
| $x = -6$ | $x = -3$ | $x = 0$ | $x = 4$ |

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

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

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

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

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

- | | | | |
|-----------|-----------|-----------|------------|
| A $x = 0$ | B $x = 3$ | C $x = 5$ | D $x = -2$ |
| $x = -1$ | $x = -4$ | $x = 4$ | $x = 1$ |

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

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

- | | | | |
|------------|-----------|-----------|-----------|
| A $x = -2$ | B $x = 2$ | C $x = 1$ | D $x = 4$ |
| $x = 2$ | $x = 0$ | $x = -5$ | $x = -6$ |

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

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

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

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

$$y = x^2 - x$$

- | | | | |
|-----------|-----------|-----------|------------|
| A $x = 2$ | B $x = 1$ | C $x = 3$ | D $x = -3$ |
| $x = -5$ | $x = 0$ | $x = -6$ | $x = 1$ |

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

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

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