

Quadratic Equations

Solve the following equations using the quadratic formula where necessary:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

1) $x^2 - 7x + 10 = 0$

2) $x^2 - 5x + 6 = 0$

3) $x^2 - 4 = 0$

4) $x^2 - 3x = 0$

5) $x^2 + 4x + 3 = 0$

6) $x^2 + 4x - 5 = 0$

7) $x^2 = 8x - 7$

8) $x^2 - 2 = x$

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Answers

Solve the following equations using the quadratic formula where necessary:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

1) $x^2 - 7x + 10 = 0$

$x = 5$ or 2

2) $x^2 - 5x + 6 = 0$

$x = 3$ or 2

3) $x^2 - 4 = 0$

$x = \pm 2$

4) $x^2 - 3x = 0$

$x = 0$ or 3

5) $x^2 + 4x + 3 = 0$

$x = -1$ or -3

6) $x^2 + 4x - 5 = 0$

$x = -5$ or 1

7) $x^2 = 8x - 7$

$x = 1$ or 7

8) $x^2 - 2 = x$

$x = 2$ or -1