

A2.A.25: Quadratic Formula 2: Solve quadratic equations, using the quadratic formula

1 The roots of the equation $2x^2 + 7x - 3 = 0$ are

2 The solutions of the equation $y^2 - 3y = 9$ are

3 The roots of the equation $x^2 - 4x + 9 = 0$ are

4 The roots of the equation $x^2 - 3x + 7 = 0$ are

5 The roots of the equation $3x^2 - 4x + 2 = 0$ are

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Answer Section

1 ANS:

$$\frac{-7 \pm \sqrt{73}}{4}$$

$$\frac{-7 \pm \sqrt{7^2 - 4(2)(-3)}}{2(2)} = \frac{-7 \pm \sqrt{73}}{4}$$

PTS: 2 REF: 081009a2

2 ANS:

$$\frac{3 \pm 3\sqrt{5}}{2}$$

$$\frac{3 \pm \sqrt{(-3)^2 - 4(1)(-9)}}{2(1)} = \frac{3 \pm \sqrt{45}}{2} = \frac{3 \pm 3\sqrt{5}}{2}$$

PTS: 2 REF: 061009a2

3 ANS:

$$2 \pm i\sqrt{5}$$

PTS: 2 REF: 088422siii

4 ANS:

$$\frac{3 \pm i\sqrt{19}}{2}$$

PTS: 2 REF: 068526siii

5 ANS:

$$\frac{2 \pm i\sqrt{2}}{3}$$

PTS: 2 REF: 088526siii