

$$7. -x^2 + 7x - 3 = 0$$

$$x = \frac{-7 \pm \sqrt{7^2 - 4(-1)(-3)}}{2(-1)}$$

$$x = \frac{-7 \pm \sqrt{37}}{-2}$$

$$x = \{0.46, 6.54\}$$

$$8. x^2 + 4x + 1 = 0$$

$$x = \frac{-4 \pm \sqrt{4^2 - 4(1)(1)}}{2(1)}$$

$$x = \frac{-4 \pm \sqrt{12}}{2}$$

$$x = \{-0.27, -3.73\}$$

$$9. 2x = 7 - x^2 \rightarrow x^2 + 2x - 7 = 0$$

$$x = \frac{-2 \pm \sqrt{2^2 - 4(1)(-7)}}{2(1)}$$

$$x = \frac{-2 \pm \sqrt{32}}{2}$$

$$x = \{1.83, -3.83\}$$

$$10. x^2 + 11x = 0$$

$$x = \frac{-11 \pm \sqrt{11^2 - 4(1)(0)}}{2(1)}$$

$$x = \frac{-11 \pm \sqrt{121}}{2}$$

$$x = \{0, -11\}$$

$$11. 2x^2 + 5x + 4 = 0$$

$$x = \frac{-5 \pm \sqrt{5^2 - 4(2)(4)}}{2(2)}$$

$$x = \frac{-5 \pm \sqrt{-7}}{4}$$

$$x = \emptyset$$

$$12. 2x^2 + 7x - 9 = 0$$

$$x = \frac{-7 \pm \sqrt{7^2 - 4(2)(-9)}}{2(2)}$$

$$x = \frac{-7 \pm \sqrt{121}}{4}$$

$$x = \{1, -4.5\}$$

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