Solving Quadratic Equations

Name:

Date:

Solve each equation by factoring or using the quadratic formula.

1) $x^2 + 13x + 12 = 0$

2) $3x^2 - 7x + 4 = 0$

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

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

5) $3x^2 + 8x - 3 = 0$

6) $x^2 + 10x - 24 = 0$

7) $x^2 + 3x + 3 = 0$

8) $4x^2 + 6x - 4 = 0$

9) $4x^2 + 8x = 0$

10) $4x^2 - 24x + 36 = 0$

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Solving Quadratic Equations

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Answers

Solve each equation by factoring or using the quadratic formula.

1) $x^2 + 13x + 12 = 0 \Rightarrow x = -1\,, x = -12$

2) $3x^2 - 7x + 4 = 0 \Rightarrow x = \frac{4}{3}, x = 1$

3) $x^2 + 5x + 4 = 0 \Rightarrow x = -4, x = -1$

4) $2x^2 + 4x + 3 = 0 \Rightarrow \Delta < 0 \Rightarrow$ no response

5) $3x^2 + 8x - 3 = 0 \Rightarrow x = -\frac{15}{6}, x = \frac{5}{6}$

6) $x^2 + 10x - 24 = 0 \Rightarrow x = 2\,, x = -12$

7) $x^2 + 3x + 3 = 0 \Rightarrow \Delta < 0 \Rightarrow$ no response

8) $4x^2 + 6x - 4 = 0 \Rightarrow x = \frac{1}{2}, x = -2$

9) $4x^2 + 8x = 0 \Rightarrow x(4x + 8) = 0 \Rightarrow x = 0\,, x = -2$

10) $4x^2 - 24x + 36 = 0 \Rightarrow x = 3\,, x = 3$