

Name _____



Date _____

Quadratic Equations

(Answer ID # 0525633)

Use the quadratic formula to solve each equation.

1. $-15x^2 + 10x = 16\frac{2}{3}$	2. $5x^2 + 4x + 1 = 0$	3. $-x^2 + 2x = 5$
4. $6x - 7 = -4\frac{1}{2}x^2 - 9\frac{1}{2}$	5. $-64x^2 - 24x - 8 = -44x^2$	6. $-\frac{2}{7}x^2 + 23x = -\frac{1}{42}x^2 - 7\frac{2}{3}$
7. $-10x - 63\frac{1}{3} = 15x^2 - 55$	8. $5x^2 + 6x + 9 = 0$	9. $5x^2 + 21x = 19x - 1$
10. $x^2 + 2x + 5 = 0$	11. $-5x^2 + 3x - 17 = -9x - 9$	12. $-20x^2 - 48x = 36$
13. $21\frac{1}{3}x^2 - 10\frac{2}{3}x - 58\frac{2}{3} = -\frac{1}{61}\frac{1}{3}$	14. $-2x^2 + 2x + 1\frac{1}{2} = 4$	15. $-2x^2 + 2x - 1 = 0$

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Quadratic Equations

(Answer ID # 0469434)

Use the quadratic formula to solve each equation.

1. $-15x^2 + 10x = 16\frac{2}{3}$ $x = \frac{-1 \pm 3i}{-3}$	2. $5x^2 + 4x + 1 = 0$ $x = \frac{-2 \pm i}{5}$	3. $-x^2 + 2x = 5$ $x = 1 \pm 2i$
4. $6x - 7 = -4\frac{1}{2}x^2 - 9\frac{1}{2}$ $x = \frac{-2 \pm i}{3}$	5. $-64x^2 - 24x - 8 = -44x^2$ $x = \frac{-3 \pm i}{5}$	6. $-\frac{2}{7}x^2 + 23x = -\frac{1}{42}x^2 - 7\frac{2}{3}$ $x = \frac{-1 \pm i}{3}$
7. $-10x - 63\frac{1}{3} = 15x^2 - 55$ $x = \frac{-1 \pm 2i}{3}$	8. $5x^2 + 6x + 9 = 0$ $x = \frac{-3 \pm 6i}{5}$	9. $5x^2 + 21x = 19x - 1$ $x = \frac{-1 \pm 2i}{5}$

<p>10. $x^2 + 2x + 5 = 0$</p> <p>$x = -1 \pm 2i$</p>	<p>11. $-5x^2 + 3x - 17 = -9x - 9$</p> <p>$x = \frac{-6 \pm 2i}{-5}$</p>	<p>12. $-20x^2 - 48x = 36$</p> <p>$x = \frac{-6 \pm 3i}{5}$</p>
<p>13. $21\frac{1}{3}x^2 - 10\frac{2}{3}x - 58\frac{2}{3} = -\frac{1}{61}\frac{1}{3}$</p> <p>$x = \frac{-1 \pm i}{-4}$</p>	<p>14. $-2x^2 + 2x + 1\frac{1}{2} = 4$</p> <p>$x = \frac{-1 \pm 2i}{-2}$</p>	<p>15. $-2x^2 + 2x - 1 = 0$</p> <p>$x = \frac{-1 \pm i}{-2}$</p>