

The Quadratic Formula

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

Some problems cannot be solved by factoring. The quadratic formula can be used in this situation to find the quadratic roots.

Example: Solve $x^2 - 6x + 4 = 0$ by the quadratic formula.

More Practice!

1. $x^2 + 10x - 2 = 0$	2. $x^2 - 11 = 4x$
3. $x^2 - 8x = 20$	4. $x^2 - 5x - 36 = 0$
5. $x^2 + 6x + 10 = 0$	6. $-x^2 - 12x - 18 = 0$

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

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

9. $2x = 7 - x^2$

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

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

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

13. $2x^2 - 8 = 0$

14. $4x^2 + 9 = 12x$

15. $3x^2 - 1 = -8x$

16. $3x^2 + 7x = x^2 - 2x + 15$