

## Quadratic Equations

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**Solve each equation by factoring.**

1)  $n^2 - 3n = 0$

2)  $p^2 - 2p - 15 = 0$

3)  $2x^2 - 7x - 49 = 0$

4)  $3r^2 + 8r - 3 = 0$

**Solve each equation by taking square roots.**

5)  $-n^2 = -12$

6)  $x^2 + 4 = 19$

**Solve each equation by completing the square.**

7)  $a^2 + 10a + 18 = 9$

8)  $v^2 - 12v - 81 = -9$

$$9) 8k^2 + 16k - 26 = -2$$

$$10) 3a^2 - 12a + 14 = 5$$

**Solve each equation with the quadratic formula.**

$$11) x^2 + 8x - 19 = -5$$

$$12) 6x^2 + 4x + 11 = 2$$

$$13) 9v^2 + 6v - 2 = 7$$

$$14) x^2 + 4x - 16 = -10$$

**Solve each equation using the easiest method.**

$$15) x^2 - 2x - 54 = 9$$

$$16) 7k^2 - 14k - 17 = 4$$