

# WAY COOL Algebra



## Solve using Square Roots.

1)  $2m^2 - 7 = 91$

2)  $-4x^2 + 6 = -394$

3)  $4h^2 - 13 = 12$

4)  $16(9x^2 + 16) - 185 = 72$

5)  $8k^2 - 16 = 24$

6)  $x^2 - 23x + 42 = 0$

## Solve by Factoring (Zero Product Property)

7)  $x^2 + 17x + 72 = 0$

8)  $2x^2 - 3x - 20 = 0$

9)  $9x^2 + 1 = 6x$

10)  $x^2 - x = 3x + 12$

11)  $2x^2 + 11 = 20 - 2x^2$

12)  $x^2 + 6x - 5 = 0$

Solve using Completing the Square.

13)  $w^2 - 8w - 51 = -3$

14)  $m^2 - 6m - 10 = 6$

15)  $d^2 - 3d + 5 = 9$

16)  $p^2 + 5p - 10 = -14$

17)  $x^2 + 6x - 5 = 0$

18)  $y^2 + 8y + 18 = 12$