

## SOLVING QUADRATICS BY FACTORING

Solve each equation by factoring & state what type of roots exist.

1)  $4p^2 - 9 = 0$  (Use DOTS)

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

3)  $2n^2 + 7n + 6 = 0$

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

5)  $2m^2 + 5m + 2 = 0$

6)  $2b^2 + b - 3 = 3$

7)  $2n^2 - 9n + 12 = 3$

8)  $2m^2 + 7m = -3$

9)  $3n^2 + 8n - 5 = -2$

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

$$11) 2m^2 = 3 - m$$

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

$$13) 3v^2 - 10v = -3$$

$$14) 2x^2 - 3 = 5x$$

$$15) 2b^2 + 3b = 9$$

$$16) a^2 + 2a = 3$$

$$17) 4n^2 - 7 = 3n^2 - 1 + n$$

$$18) n^2 + 4n + 2 = -2$$

$$19) n^2 + 1 = -n + 1$$

$$20) x^2 + 2x - 1 = 2$$