

Warm up

Solve by factoring

1) $0 = x^2 + 3x - 28$

2) $10x^2 + x - 3 = 0$

The Quadratic Formula

Quadratic equations are of the form _____.

The roots of the quadratic equation correspond to _____

_____.

We have solved quadratic equations by

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If we cannot solve $0 = ax^2 + bx + c$ by factoring, we can use...

The Quadratic Formula

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

Solve using the quadratic formula. List a, b & c before substituting into formula.

$$x^2 - 5x - 6 = 0$$

Solve using the quadratic formula

1) $2x^2 - 7x = -3$

2) $x^2 + 5x - 4 = 0$

3) $3x^2 + 4x + 8 = 0$

4) $-x^2 + 5 = 0$

5) $2.5x^2 + 14.2x - 5.8 = 0$