

Quadratic Expressions

Special Patterns and Factors

Difference of Perfect Squares:

$$a^2 - b^2 = (a + b)(a - b)$$

Perfect Square Trinomial (**plus pattern**):

$$a^2 + 2ab + b^2 = (a + b)^2 = (a + b)(a + b)$$

Perfect Square Trinomial (**minus pattern**):

$$a^2 - 2ab + b^2 = (a - b)^2 = (a - b)(a - b)$$