

Completing the Square ($a \neq 1$)

Name _____

Date _____ Period _____

Perfect Square Trinomial

A quadratic trinomial (with three terms) that factors into a binomial squared

Determine the value of c to create a perfect square trinomial

$$x^2 + 4x + 4$$

$$x^2 - 16x + c$$

$$x^2 - 12x + c$$

The method can only be used when $a = 1$

Perfect Square Trinomial

A quadratic trinomial (with three terms) that factors into a binomial squared

Determine the value of c to create a perfect square trinomial

$$2x^2 + 8x$$

$$3x^2 - 18x$$

$$4x^2 - 48x$$

Perfect Square Trinomial

A quadratic trinomial (with three terms) that factors into a binomial squared

Determine the value of c to create a perfect square trinomial

$$6x^2 + 12x$$

$$2x^2 - 18x$$

$$3x^2 + 15x$$