

Factoring

Factoring Special Polynomials

Difference of Squares: $a^2 - b^2 = (a + b)(a - b)$

Foil $(a+b)(a-b)$

Factor the following expressions.

$$x^2 - 4$$

$$16y^2 - 49$$

$$50 - 8t^2$$

$$p^2 + 9$$

Difference of Squares: $a^2 - b^2 = (a + b)(a - b)$

Factor the following expressions.

$$x^2y^2 - 1$$

$$9y^2 - 64z^2$$

$$2x^7y^3 - 200x^5y^5$$

$$r^4 - p^{12}$$

Perfect Square Trinomials:

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

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

Expand $(a + b)^2$

Expand $(a - b)^2$

Factor the following expressions completely.

$$x^2 + 10x + 25$$

$$64y^2 - 48y + 9$$

$$100t^2 + 40t + 4$$

$$18r^2 - 12r + 2$$

Factor the following expressions completely.

$$x^2y^2 + 12xy + 36$$

$$81r^2 - 54rt + 9t^2$$

$$121p^{12} - 88p^{11} + 16p^{10}$$