

11.4 Special Factoring

Name _____

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

$x^2 - 9$

$16y^2 - 25$

Perfect Square Trinomials: $a^2 \pm 2ab + b^2 = (a \pm b)^2$

$32x^2 + 48x + 18$

$8x^2 - 40x + 50$

Sum and Difference of Cubes $a^3 \pm b^3 = (a \pm b)(a^2 \mp ab + b^2)$

$x^3 + 64$

$64 - 125x^3$

$a^3 + \frac{1}{8}$

$2y^4 - 128y$

Quadratic like equations

$$81a^4b^2 - 49c^8$$

$$x^4 - 10x^2 + 9$$

$$6x - 11\sqrt{x} + 3$$

$$4x^{-2} + x^{-1} - 5$$

$$t^9 + 216y^6$$

$$2x^{3a} - 16y^{3b}$$

$$x^6 - 64$$

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