

Factoring Quadratics - Pre-6

Topic: Factoring Quadratics

Date:

Objectives: SWBAT (Factor all types of Quadratics)

Main Ideas:	Assignment:	
GCF	$24x^2 - 35x$	$60x^2y + 24x^2$
	$120n^5p^4 - 75n^3p^7$	$16x^5 - 4x^4 + 12x^3 - 20x^2$
Difference of Squares	$x^2 - 64$	$x^2 - 144$
	$x^2 - 1$	$4m^2 - 25$
	$81x^2 - 196$	$x^2y^2 - a^2b^2$
	$16x^2 - 9$	$(x + y)^2 - z^2$
Monic-Quadratics	$x^2 - 6x + 5$	$x^2 + 5x - 24$
	$x^2 - 4x - 45$	$x^2 + 10x + 21$
	$x^2 + 12x + 32$	$x^2 - 3x - 28$
	$x^2 + 2x - 99$	$x^2 - 4x + 3$

Patterns	$x^2 - 6x + 9$	$x^2 + 14x + 49$
	$x^2 - 22x + 121$	$x^2 + 28x + 196$
	$9x^2 + 36x + 36$	$4x^2 + 12x + 9$
Grouping	$8x^3 - 64x^2 + x - 8$	$12p^3 - 21p^2 + 28p - 49$
	$6m^3 - 16m^2 + 21m - 56$	$4g^3 - 12g^2 - 5g + 15$
Non-Monic	$8x^2 + 10x + 3$	$6x^2 + 7x - 3$
	$15x^2 + x - 6$	$2x^2 + 11x - 21$
	$3x^2 + 19x + 20$	$10x^2 - 19x - 15$

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Upper Level	$x^2 + 6x + 9 - y^2$	$x^2 - y^2 - 6y + 9$
	$4a^3 - 49a$	$x^4 - 16$
	$5z^2 + 3z + 4$	$9x^2y^2 - 25y^4$