Factoring Pt. 2

April 27, 2020

examples:

$x^2 - 1$

$4x^2 - 9$

$25x^2 - 49$

Factoring the following polynomial
$25x^2 - 36$

Factoring the following polynomial

$25x^2 - 36$

$5x$

Factoring the following polynomial

$25x^2 - 36$

$5x \qquad 6$

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$25x^2 - 36$

$5x \qquad 6$

$5x \qquad -6$

Factoring the following polynomial

$25x^2 - 36$

$5x \qquad 6$

$5x \qquad -6$

$-30x$

Factoring the following polynomial

$25x^2 - 36$

$5x \qquad 6$

$5x \qquad -6$

$-30x + 30x = 0$

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$5x \qquad 6$

$5x \qquad -6$

$-30x + 30x = 0$

$(5x + 6)(5x - 6)$

Factoring the following polynomial

$25x^2 - 36$

$5x \qquad 6$

$5x \qquad -6$

$-30x + 30x = 0$

$(5x + 6)(5x - 6) \qquad (a + b)(a - b)$

In conclusion (some tips)

$25x^2 - 36$

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$25x^2 - 36$ $\qquad$ $-25x^2 - 36$

$x^2 + x + 1$

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$25x^2 - 36$	$-25x^2 - 36$
$x^2 + x + 1$	will not factor

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$25x^2 - 36$ $\qquad$ $-25x^2 - 36$

$x^2 + x + 1$ $\qquad$ will not factor

$a^2 - 2ab + b^2$ **must be** $(a - b)^2$