Factoring Review

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Is there a difference between the two sets of directions?

Identify the GCF:

$20x^2 - 15$

5

Factor using the GCF:

$\frac{20x^2}{5} - \frac{15}{5}$

$5(4x^2 - 3)$

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Factor using the GCF:

$5ax^2 - 35ax + 100a$

$5a(x^2 - 7x + 20)$

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Factor the following trinomials:

$x^2 + 8x + 7$ → 1, 7

$(x+1)(x+7)$

$x^2 - x - 30$ → 1, 30; 2, 15; 3, 10; 5, 6

$(x+5)(x-6)$ +5, −6

$x^2 - 3x + 28$ → 1, 28; 2, 14; 4, 7

unfactorable

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left page:

Factor the following trinomial:

$x^2 - 5x - 36$

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What changes when there is a leading coefficient other than 1?

Factor:

$2x^2 + 17x + 21$

2, 21 → 1, 21; 3, 7

$(2x + 3)(x + 7)$

3, 14

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What do we do with a negative leading coefficient?

$-x^2-5x-4$

$-(x^2+5x+4)$ 4, 1+4

$-(x+1)(x+4)$

$-2x^2-6x+20$

-2 -2 -2

$-2(x^2+3x-10)$ 1, 10; 2, 5

$-2(x+5)(x-2)$

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What do you look for 1st?

Factor completely:

$4n^2-10n-84$

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Factor the difference of perfect squares:

n^2-81 $(n+9)(n-9)$

$49x^4-121$ $(7x^2+11)(7x^2-11)$

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Assignment:

Factoring Review #1

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