1-1 Factoring with a GCF

Objectives: **1-1a:** I can identify a GCF

1-1b: I can factor out a GCF from an expression

Nov 7-12:49 PM

Factor:

GCF

12 : 1, 2, 3, 4, 6, 12

8 : 1, 2, 4, 8

x^3y : x, x, x, y

x^2y^2 : x, x, y, y

x^2y

Aug 22-9:56 AM

To factor an expression containing two or more terms, factor out the *greatest common factor* (GCF)

Terms: Expressions separated by addition or subtraction

GCF: ~~A~~ The biggest value, variable, or both that terms have in common

Factor each quadratic expression.

a. $5x^2 + 4x$

GCF: x

$x(5x+4)$

b. $3ax^2 - 6a^2x$

$3ax(x-2a)$

Nov 7-1:00 PM

Factor out the GCF for the following

$4xy^2 + 12x^2y^3$

$4xy^2(1 + 3xy)$

$3x^2 - 9x + 27$

$3(x^2 - 3x + 9)$

$5x^2 - 25x$

$5x(x-5)$

$7a^2b + 5ab^2$

$ab(7a + 5b)$

Jan 4-10:47 PM

Identify the terms and GCF of each term

1 term 1 term

$$2y(y+5)+3(y+5)$$

Terms: 2

GCF: $(y+5)$

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Binomial Factors

Factor out each common binomial factor.

$$4x(x+1)-3(x+1)$$

$(x+1)(4x-3)$

$$2t(3t-7)+5(3t-7)$$

$(3t-7)(2t+5)$

Jan 4-10:44 PM

Factor the following

$2a(a-1)-3(a-1)$

$x(x+7)-5(x+7)$

$4x(x+3)-5(x+3)$

Jun 18-11:44 AM