Cycle 1 Day 5

MBF 3CI CHAPTERS 4, 5, 7: RELATIONS

Date: 100.2/17

LEARNING TARGET:



"I can expand and simplify polynomials. I can common factor any polynomial."

A term is a number or variable, or a product of a number and a variable(s). For example,

ct of a number and a variable(s).

degree
$$0x - 3xy^2 = 2x^2y^4 = 2+1$$

degree = 6

= 3

A polynomial is an algebraic expression with terms that are added and/or subtracted.

For example,

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

A monomial is a polynomial with one term. For example, $2x^2y$

A **binomial** is a polynomial with two terms. For example, $2x^2y + 9y$

A **trinomial** is a polynomial with three terms. For example, $2x^2y + 9y - 4y^2$

40+30

Only terms that are "like" each other can be simplified.

at 4a
$$3C - 4C = 6a + 3C$$

= 6a = 3c = Does Not Simplify

= Does Not Simplify

Simplify:

$$\frac{4x - 2x + x^2}{2x + x^2}$$

$$4x^3 - 2x + x^2$$
= Does Not Simplify

LESSON PART A:

EXPAN

N

G

RECALL:

$$x + x$$

FOIL

Expand and simplify:

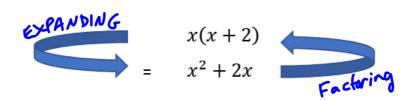
$$x(x-9)$$

 $= X_3 + 2X + 6$

PRACTICE PART A: p. 239 #3 and 4

LESSON PART B:

(FACT)(ORING)



To factor a number or polynomial, means to find out what to multiply together to create the number or polynomial.

Factor fully:

b)
$$9y^2 - 3y$$

a)
$$7x-42$$

b) $9y^2-3y$
c) $-7x^2y+14xy$
= $7(x-6)$
= $3y(3y-())$
= $-7xy(x-2)$

PRACTICE PART B: p. 233 #13 and p. 254 #6. Are you done PART A from above?