Warm Up

Oct. 11

Expand and Simplify

a) $3b(4 + 2b)$

$$12b + 6b^2$$

b) $5x(3x^2 + 6x - 7)$

$$15x^3 + 30x^2 - 35x$$

c) $(6x + 2y)(-2x^2 - x + 10)$

$$-12x^3 - 6x^2 + 60x - 4x^2y - 2xy + 20y$$

Similar to quiz

Ex) $3m^2 b^3(1mb^2 + 7m^1)$

$$3m^3 b^5 + 21 m^3 b^3$$

Any homework Questions

Page 186-187 8b, 9cd,15ada, 21abc

Pg. 149 1ae, 2ad, 3ab

Pg. 155 15b(iii), 16def

Quiz Tomorrow

1) Find the GCF of 2 numbers

2) Prime factorization (tree)

3) Factor the following (GCF out)

4) Simplify first then factor (Collect like terms then factor out GCF)

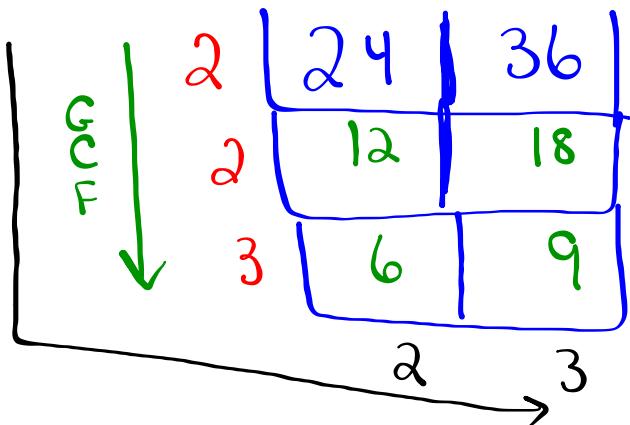5) Expand AND simplify

6) Multiply 2 binomials (rainbow)

21a)

$$(3x+4)(x-5)(2x+8)$$

$$(3x^2 - 15x + 4x - 20)(2x+8)$$

$$(3x^2 - 11x - 20)(2x+8)$$

$$6x^3 + 24x^2 - 22x^2 - 88x - 40x - 160$$

$$6x^3 + 2x^2 - 128x - 160$$

GCF	2	24	36
	2	12	18
	3	6	9
		2	3

$$GCF(24,36) = \frac{2 \times 2 \times 3}{12}$$

$$LCM(24,36)$$
$$= 2 \times 2 \times 3 \times 2 \times 3$$
$$= 72$$

Factor the common factor
out of each expression.

$$1 \times 18$$
$$2 \times 9$$
$$3 \times 6$$

1) $42ba^3 + 30ba + 18b$

$6b\left(7a^3 + 5a + 3\right)$

Factor the common factor out of each expression.

1×24
2×12
3×8
4×6

3) $-33x^2y^3 + 39x^4y^4 + 24x^4y^3$

$3x^2y^3\left(-11 + 13x^2y^1 + 8x^2\right)$

Similar to quiz

1) $-8x^4 + 4x^3 + 2x^4 - 6x^3 + 10x5$

Simplify (collect like terms)

$-6x^4 - 2x^3 + 10x^5$

factor out GCF

$2x^3(-3x^1 - 1 + 5x^2)$

Class/Homework

Quiz Tomorrow

factor

Pg. 155 15b(iii), 16def

15b iii
16 def

Worksheet 1
Expand and Simplify WS 1.pdf

1, 2

Worksheet 2
Review of Factoring the GCF.pdf

1, 2

Worksheet 3
Review of LCM & GCF.pdf   1, 2

1) Find the GCF of 2 numbers

2) Prime factorization (tree)

3) Factor the following (GCF out)

4) Simplify first then factor (Collect like t
then factor out GCF)

5) Expand AND simplify

6) Multiply 2 binomials (rainbow)

2) $\quad 18x^2y + 7x^2y^2 - 3x^2y^2$

Attachments

Expand and Simplify WS 1.pdf

Review of Factoring the GCF.pdf

Review of LCM & GCF.pdf