

Last Day of New Work for Semester 1!!!!

Chapter 5 Test will be

Wednesday, January 13, 2016

WARM-UP

Simplify the following:

A. $(2x^2-3) - (4x^2-3x+6)$

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

$$2x^2 - 4x^2 + 3x - \boxed{3-6}$$

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

B. $\frac{-4(x^2 + 8x - 16)}{2}$

$$\frac{-4x^2}{2} - \frac{32x}{2} + \frac{64}{2}$$

$$-2x^2 - 16x + 32$$

Divide or multiply each of the following:

A. $(-6q^2 - 10) \div 2$

$$\frac{-6q^2}{2} - \frac{10}{2}$$

$$-3q^2 - 5$$

C. $-4(-2x^2 + 5x - 3)$

$$8x^2 - 20x + 12$$

B. $\frac{4r^2 - 16r + 6}{2}$

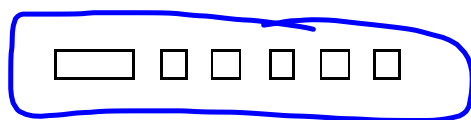
$$2r^2 - 8r + 3$$

D. $(-9x + 5x^2 - 3)5$

$$-45x + 25x^2 - 15$$

descending \rightarrow $25x^2 - 45x - 15$

What is the multiplication sentence modelled by this set of algebra tiles?



$$2(x + 5)$$

Section 5.6 Multiplying and Dividing a Polynomial by a Monomial

The expression $(2c)(4c)$ is the product of two monomials.

$$(2c)(4c) = 8c^2$$

What you should remember...

Remember Laws of Exponents

When Multiplying---Base is the same ADD the exponent

[variable]

$$a) 3(2r) = 6r$$

$$b) (3r)(2r) = 6r^2$$

$$c) (2c) (-4c) = -8c^2$$

Determine the product

A. $2x(3x + 4)$

$$6x^2 + 8x$$

B. $-2x(-3x - 4)$

$$6x^2 + 8x$$

c) $-2(3x - 5)$

$$-6x + 10$$

d) $3x(2x^2 - 4x + 3)$

$$6x^3 - 12x^2 + 9x$$

Determine the product

$$8x(2x - 3y)$$

$$16x^2 - 24xy$$

Dividing a Monomial and a Binomial by a Monomial
base is same subtract the exponents

A. $\frac{-10m^2}{2m^1}$

$$\frac{-10m^2}{2m^1}$$

$$-5m^1$$

B. $\frac{30k^2 - 18k}{-6k}$

$$\frac{30k^2}{-6k} - \frac{18k}{-6k}$$

$$-5k + 3$$

$$-5k + 3$$

$$-5k + 3k^0$$

$$\text{C. } \frac{-6r^2 + 4r}{2r}$$
$$-3r + 2$$

Determine the quotient

$$\frac{24x^2 + 6xy}{3x}$$

$$8x + 2y$$

Homework
Pg 256

#10 [a], #11, #12, #16,
#20 [a,c,e], #21 [a, c,e]

