

BE-1B TUESDAY 9-26-06

① 2^4

② $\left(\frac{1}{3}\right)^2$

③ $(-5)^2$

④ -5^2

⑤ $(-5)^3$

①

MONOMIAL
 ONE
 e.g.
 "monorail"

A number, a variable,
 or a product of
 a number and one or
 more variables.

YES or NO?

$$-5$$

$$x$$

$$xy$$

$$3xy^2$$

$$\frac{1}{2}xyz^4$$

$$\frac{x}{y}$$

$$\frac{x}{2}$$

$$a + b$$

MULTIPLICATION RULE FOR EXPONENTS

$$x x x = x^3$$

$$x x x x = x^4$$



$$x x x x x x x$$

$$= (x x x)(x x x x)$$

$$= (x^3)(x^4)$$

$$= x^3 x^4 = ?$$

MULT. Rule To multiply two powers WITH THE SAME base, ADD THE EXPONENTS

$$\boxed{a^m a^n = a^{m+n}}$$

Ex) $x^5 x^2$
 $y^4 y^8$
 $x^5 y^3$

③

WHEN YOU MULTIPLY MONOMIALS,
MULTIPLY "NUMBERS TIMES NUMBERS"
AND ONLY USE THE MR WITH
VARIABLES THAT HAVE THE SAME BASE.

$$\text{EX) } (2x^5)(4x^2)$$

$$= 2 \cdot 4 \cdot \text{xxxxx} \cdot \text{xx}$$

$$= \boxed{8x^7}$$

EX 2 PG 411

Ⓐ $(5x^7)(x^6)$

Ⓑ $(4ab^6)(-7a^2b^3)$

Ⓐ $\boxed{5x^{13}}$

Ⓑ $\boxed{-28a^3b^9}$

Pg 413 # 4-8

Pg 413 # 15-26

Read 8-1

Pg 837 Lesson 8-1 #1-9

Homework