APRIL 10, 2012

ALG1

GET OUT YOUR REVIEW FROM TUESDAY

4/12 - Exponent Rules: Product of Powers

What are exponents?

2^4 ← exponent
base

$= 2 \cdot 2 \cdot 2 \cdot 2$
$= 16$

Exponent tells how many times the base is multiplied by itself.

x^2
$= x \cdot x$

$2x^4$
$= 2 \cdot x \cdot x \cdot x \cdot x$

$x^2 \cdot 2x^4$
$= x \cdot x \cdot 2 \cdot x \cdot x \cdot x \cdot x$
$= 2x^6$

$2r^2 \cdot 2r^3$

$= 4r^5$

$3m^4 \cdot 2m^3$

$= 6m^7$

$3v \cdot 2v^4$

$= 6v^5$

$1a^2 \cdot 3a^3 \cdot 1a^2$

$= 3a^7$

$-2k^3 \cdot -k$

$2k^4$

$3x^3 \cdot -4x^3$

$= -12x^6$

$2r^4 \cdot -2r^3$

$= -4r^7$

$-x^4 \cdot 2x^4 \cdot x$

$= -2x^9$

$1xy^4 \cdot 4y^4$

$= 4xy^8$

$xy^2 \cdot 4y^2 \cdot y$

$= 4xy^5$

$2mn^4 \cdot -4n^3$

$= -8mn^7$

$-2a \cdot -3ba^2$

$= 6a^3b$

$-4yx^3 \cdot -4xy^4$

$= 16x^4y^5$

$-u^3v^4 \cdot 4u^3v^3$

$= -4u^6v^7$

$-3x^4y^4 \cdot 3x^2y^3$

$= -9x^6y^7$

Questions??

HOMEWORK

Pink EXPONENTS WS1

DUE TODAY