

APRIL 16, 2012

ALG1

IS THERE ANYTHING TO CORRECT?



4/16 - Combining Exponents Rules

Order of Operations:

1. Parentheses
2. Exponents
3. ~~Multiply/Divide~~
4. ~~Add/Subtract~~

$$\begin{aligned} & (2v^3)^3 (2v)^4 \\ &= 8v^9 \cdot 16v^4 \\ &= 128v^{13} \end{aligned}$$

$$\begin{aligned} & (2n^2 \cdot n^3)^2 \\ &= (2n^5)^2 \\ &= (2nnnnn)(2nnnnn) \\ &= 4n^{10} \end{aligned}$$

$$\begin{aligned} & x^3 \cdot (x^3)^2 \cdot 2x^3 \\ &= x^3 \cdot x^6 \cdot 2x^3 \\ &= 2x^{12} \end{aligned}$$

$$\begin{aligned} & (2a)^4 (a^3)^2 \cdot a^2 \\ &= 16a^4 \cdot a^6 \cdot a^2 \\ &= 16a^{12} \end{aligned}$$

$$\begin{aligned} & -2m(2m^2)^4 \\ &= -2m \cdot 16m^8 \\ &= -32m^9 \end{aligned}$$

$$\begin{aligned} & -n^3 \cdot (-n^3)^4 \\ &= -nnn \cdot (-nn)^4 \\ &= -nnn \cdot -nn \cdot -nn \cdot -nn \cdot -nn \\ &= -n^{11} \end{aligned}$$

$$\begin{aligned} & (-x^4)^3 \cdot -2x^2 \\ = & -x^{12} \cdot -2x^2 \\ = & 2x^{14} \end{aligned}$$

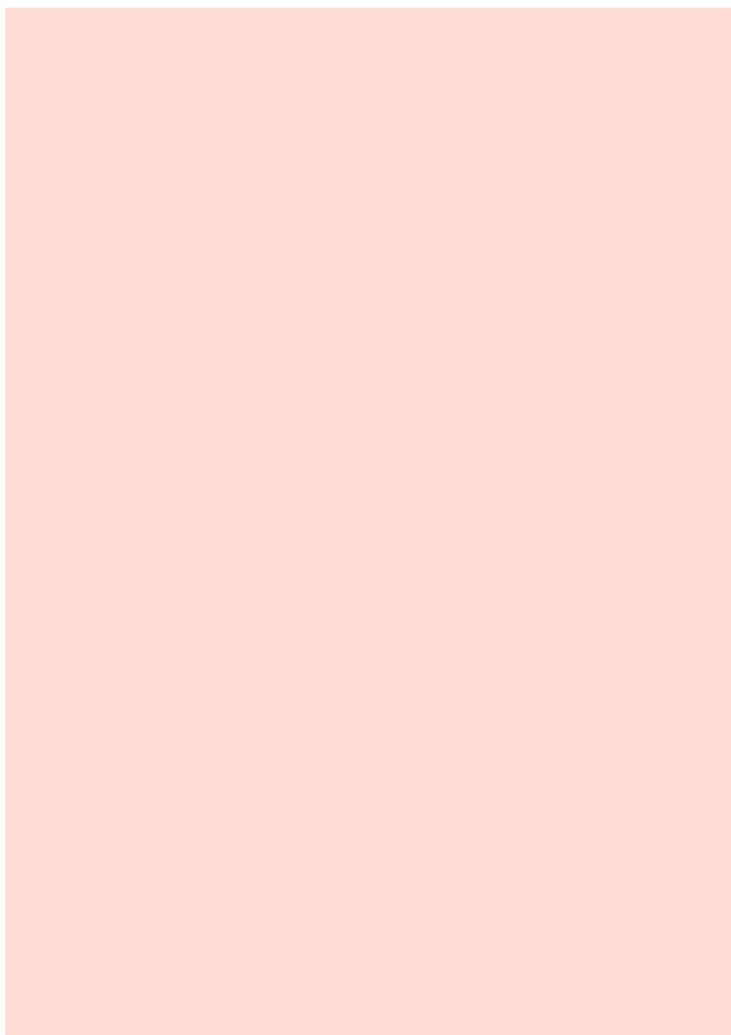
$$\begin{aligned} & (-a^1 \cdot -a^4)^3 \\ = & (a^5)^3 \\ = & a^{15} \end{aligned}$$

$$\begin{aligned} & (2a^4 \cdot 1a^2b^2)^4 \\ &= (2a^6b^2)^4 \\ &= 16a^{24}b^8 \end{aligned}$$

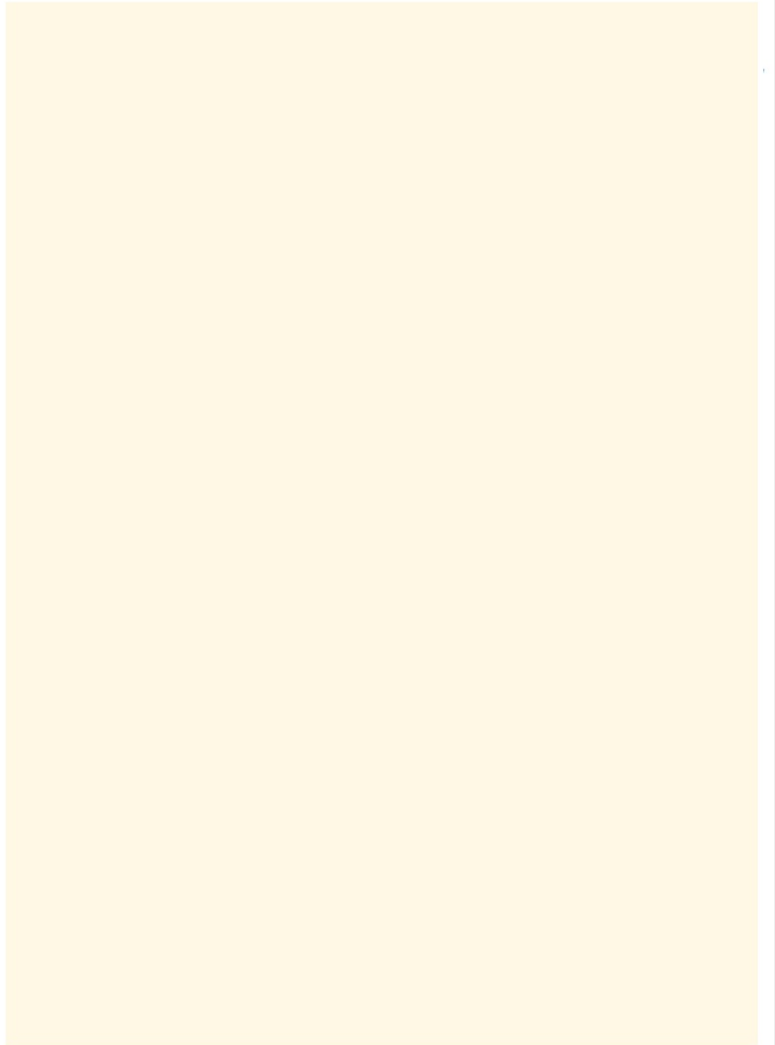
$$\begin{aligned} & (2u^2v^4)^4 \cdot uv \\ &= 16u^8v^{16} \cdot uv \\ &= 16u^9v^{17} \end{aligned}$$

$$\begin{aligned} & 2x^2y^2 \cdot (2yx^4)^4 \\ &= 2x^2y^2 \cdot 16y^4x^{16} \\ &= 32x^{18}y^6 \end{aligned}$$

$$\begin{aligned} & (-u^2 \cdot u^3 v^3)^3 \\ &= (-\underbrace{u \cdot u \cdot u \cdot u \cdot u}_5 v^3)^3 \\ &= -u^{15} v^9 \end{aligned}$$



$$(-2a^2)^2(-a^3b^3)^3$$



HOMework

GREEN EXPONENTS WS3

DUE WEDNESDAY