

October 14, 2015

* What is the meaning of an Exponent?

#4)
$$\frac{(3a^3c^2)^3}{a^3b^{-2}c^2 \cdot a^{-4}c^3}$$

$$= \frac{3^3(a^3)^3(c^2)^3}{a^3b^{-2}c^2 \cdot a^{-4}c^3}$$

$$= \frac{27a^9c^6b^2}{a^{-1}c^3}$$

$$= 27a^{10}c^3b^2$$

Oct 14-9:01 AM

$$(3ac)^{-2} = \frac{1}{(3ac)^2}$$

$$= \frac{1}{9a^2c^2}$$

Oct 14-9:31 AM

$$(7x+4)^4$$

$$[(7x+4)(7x+4)](7x+4)(7x+4)$$

$$(49x^2 + 56x + 16)(7x+4)$$

$$343x^3 + 196x^2 + 392x + 224x$$

$$112x + 64$$

$$(343x^3 + 588x^2 + 336x + 64)(7x+4)$$

$$2401x^4 + 1372x^3 + 4116x^2 + 2352x^2$$

$$+ 2382x^2 + 1344x + 448x + 256$$

$$2401x^4 + 5488x^3 + 4704x^2 + 1792x + 256$$

Oct 14-9:38 AM

5.6 #1 - #50 m3

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