October 30, 2017

* Quiz #7 - Wednesday
  1. Add/Subtract Polynomials
  2. Exponents

Oct 30-10:00 AM

Exp #1

#12) $(2x^2)^{-4}$ (Base)

$(2^1 \cdot x^2)^{-4}$

$(2^{1\cdot -4}) \cdot (x^{2\cdot -4})$

$2^{-4} \cdot x^{-8}$

$\frac{1}{2^4 \cdot x^8} = \boxed{\frac{1}{16x^8}}$

Oct 30-10:05 AM

#30) $\frac{3x^3 y^{-1} z^{-1}}{x^{-4} y^0 z^0} = \frac{3x^{3-(-4)=7}}{y^1 z^1}$

$= \boxed{\frac{3x^7}{yz}}$

Oct 30-10:18 AM

#21) $\frac{r^3}{2r^{3-1}} = \frac{r \cdot r}{2 \cdot r \cdot r}$

or

$\frac{r^{2-3=-1}}{2} = \frac{1}{2r} = \boxed{\frac{1}{2r}}$

Oct 30-10:22 AM

Exp #2

#2) $(x^4)^{-3} \cdot 2x^4$

$x^{-12} \cdot 2x^4$

① $2x^{-12+4=-8} = 2x^{-8} = \boxed{\frac{2}{x^8}}$

② $x^{-12} \cdot 2x^4$

$\frac{2x^4 \cdot 1}{x^{-12-8}} = \boxed{\frac{2}{x^8}}$

Oct 30-10:28 AM

Exp #1

#26) $\frac{2x^4 y^{-4} z^{-3}}{3x^2 y^{-3} z^4}$

$\frac{2x^2 \mid y^7}{3 \mid y^4 \mid z^1 \cdot z^3}$

$\boxed{\frac{2x^2}{3yz^7}}$

Oct 30-10:36 AM