Algebra I Tues. 1-29-13 Class Notes

Quiz Review

(11) ID2 $\dfrac{(-N^4)^3}{-2N^4 \cdot 2N^2} = \dfrac{N^{12}}{4N^6}$

$= \dfrac{N^{12-6}}{4} = \boxed{\dfrac{N^6}{4}}$

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(5) ID1 $(-3N^2)^4 = \boxed{81N^8}$

$3^2 3^2 = 3^4 = 81$

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(9) ID2 $\dfrac{(-V)^0}{(V^3V^4)^2} = \dfrac{1}{(V^7)^2} = \boxed{\dfrac{1}{V^{14}}}$

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(6) ID1 $(-2X^3)^3 = \boxed{-8X^9}$

(7) $\dfrac{(-a^{-4})^{-3} \cdot -a^{3}}{\dfrac{a}{\dfrac{-a^{2}}{(-a^{-4})^{3}}}} = +\dfrac{a^{2}}{a^{-12}}$

$= a^{2}a^{12}$

$= \boxed{a^{14}}$

(8) ID2

$$\frac{N^{-4}}{N(-N^4)^{-1}} = \frac{1(-N^4)^1}{NN^4}$$

$$= \frac{-N^4}{N^5}$$

$$= -\frac{N^{4-5}}{1} = -N^{-1}$$

$$= \boxed{-\frac{1}{N}}$$

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(8) ID1

$$\frac{V^{-1}}{(V^{-3}V^{-4})^3} = \frac{1}{V(V^{-7})^3}$$

$$= \frac{1}{VV^{-21}}$$

$$= \frac{V^{21}}{V}$$

$$= \boxed{V^{20}}$$