Bellwork Tuesday, April 15, 2014

Simplify each. Make sure your answers have no exponents that are negative or zero. Reduce fractions...No Decimals

1.
$$(4P^{5}Q^{-3}R^{2})^{-3}(2P^{-2}Q^{6}R^{-4})^{3}(P^{-3}Q^{-1}R)^{-4}$$

$$(4P^{5}Q^{-3}R^{2})^{-2}(2P^{-2}Q^{6}R^{-4})^{3}(P^{-3}Q^{-1}R)^{-4}$$

$$(4P^{5}Q^{-3}Q^{-1}R)^{-4}(P^{-2}Q^{-1}R)^{-4}$$

$$(4P^{5}Q^{-3}Q^{-1}R)^{-4}(P^{-2}Q^{-1}R)^{-4}$$

$$(4P^{5}Q^{-3}Q^{-1}R)^{-4}(P^{-2}Q^{-1}R)^{-4}$$

$$(4P^{5}Q^{-3}Q^{-1}R)^{-4}(P^{-2}Q^{-1}R)^{-4}$$

$$(4P^{5}Q^{-1}$$

3.
$$\left(\frac{w^{3}x^{-4}}{w^{-2}y^{-3}} \right)^{-1} \left(\frac{w^{-3}y^{5}}{x^{-5}w^{7}} \right)^{-3}$$

$$\left(\frac{\sqrt{5}x^{4}}{\sqrt{3}} \right)^{-1} \cdot \left(\frac{\sqrt{5}x^{4}}{x^{5}} \right)^{-3}$$

$$\left(\frac{\sqrt{5}x^{4}}{\sqrt{3}} \right) \cdot \left(\frac{\sqrt{7}\sqrt{7}}{x^{15}} \right)^{-3}$$

$$\left(\frac{\sqrt{5}x^{4}}{\sqrt{3}} \right) \cdot \left(\frac{\sqrt{7}\sqrt{7}}{x^{15}} \right)^{-3}$$

2.
$$(6C^{5}D^{-3})^{2}\left(\frac{C^{-2}D^{4}}{3C^{5}D^{-1}}\right)^{3}$$
 $\left(\frac{5}{3C^{N}}\right)^{3}$ $\left(\frac{5}$