Algebra 2 Bellwork Thursday, February 18, 2016
Simplify each. Write your answers so that no exponents are zero or negative.
1.
$$\frac{3^{-2}w^5z^{-6}}{6v^0w^{-4}x^7}$$
 2. $\left(\frac{5c^{-4}d^5}{15c^{-2}d^{-7}}\right)^{-2}$
Write each in radical form

3.
$$K^{\frac{8}{7}}$$
 4. $H^{\frac{5}{2}}$ 5. $D^{\frac{-1}{6}}$

Write each in exponential form: 6. $\sqrt[3]{M^7}$

7. *∜R*

8.
$$6\sqrt{C^3}$$
 9. $\sqrt[5]{10a^4}$

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Simplify each. Write your answers so that no exponents are zero or negative.
1.
$$\frac{3^{-2}w^{5}z^{-6}}{6v^{0}w^{-4}x^{7}} = \frac{w^{5}w^{4}}{3^{2}\cdot6\sqrt{7}z^{5}}$$

2. $\left(\frac{5c^{-4}d^{5}}{15c^{-2}d^{-7}}\right)^{-2} = \left(\frac{d^{12}}{3c^{-2}}\right)^{-2}$
 $= \frac{w^{9}}{5^{4}\sqrt{7}z^{6}}$
2. $\left(\frac{5c^{-4}d^{5}}{15c^{-2}d^{-7}}\right)^{-2} = \left(\frac{d^{12}}{3c^{-2}}\right)^{-2}$
 $= \frac{d^{-24}}{5^{4}\sqrt{7}z^{6}}$
Write each in radical form
3. $k^{\frac{5}{7}} = \sqrt{7}k^{\frac{8}{7}}$
4. $H^{\frac{5}{2}} = \sqrt{4}k^{\frac{5}{7}}$
Write each in exponential form:
6. $\sqrt[3]{M^{7}} = \sqrt{\frac{7}{4}}$
8. $6\sqrt{C^{3}} = \left(\frac{3^{3}/2}{2}\right)$
9. $\sqrt[3]{10a^{4}} = \left(\frac{10a^{4}}{5}\right)^{\frac{1}{5}}$
9. $\sqrt[3]{10a^{4}} = \left(\frac{10a^{4}}{5}\right)^{\frac{1}{5}}$

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