Bellwork Tuesday, April 29, 2014

Evaluate each for P = 3 Q = -6 R = 2
Give noninteger answers as reduced fractions.

1. $\frac{P^{-3}Q^2}{R^{-1}}$

$\frac{Q^2R}{P^3} = \frac{(-6)^2(2)}{(3)^3}$

$= \frac{36 \cdot 2}{27} = \frac{72}{27} = \frac{8}{3}$

2. $\frac{Q^4R^{-2}}{P^{-1}Q^2} = \frac{Q^2 \cdot P}{R^2}$

$= \frac{(-6)^2 \cdot 3}{2^2}$

$= \frac{36 \cdot 3}{4} = 27$

2. Sketch the following exponential functions on the same set of axes. Label each graph with its letter.

A. $y = 3(0.2)^x$ B. $y = 5(7)^x$ C. $y = 3(0.7)^x$

D. $y = 7(4)^x$ E. $y = 5(4)^x$