4-15-14 SLOT
Changing from Log to Exponential Form & Back

If $x > 0$ and $0 < b = 1$, then $y = \log_b x$ iff $b^y = x$

Write in exponential form

1. $y = \log_3 15$ 2. $8 = \log_2 x$ 3. $\log_x 2 = 4$

Write in log form

4. $5^2 = 25$ 5. $10^x = 3$ 6. $c^7 = 2$ 7. $y = 6^x$

4-16-14 SLOT

Rewrite each of the following in logarithmic form:

1. $x^4 = 28$ 2. $r = s^t$ 3. $3^{-x} = \frac{1}{9}$ 4. $\left(\frac{1}{2}\right)^5 = y$

Rewrite each of the following in exponential form:

5. $\log_2 x = 17$ 6. $5 = \log_x -243$ 7. $\log_d e = f$ 8. $y = \log_e 1$

9. Write, in words, how you would say the answer to #1.