7.5 Warm-Up

Friday, March 14, 2014

① Quotient: $\log_{X} \frac{a}{b} = \log_{X} a - \log_{X} b$

2) Power: logxab = blogxa

3 Product: logxab = logxa + logxb

Use the 3 properties of Logs to:

① Condense: 510942 + 71094X - 41094Y

 $\log_4 2^5 + \log_4 x^7 - \log_4 y^4$

 $\log_{4}(2^{5} \cdot \chi^{7}) - \log_{4} \chi^{4}$

 $\log_4\left(\frac{2^5x}{y^4}\right) \Rightarrow \log_4\frac{32x^7}{y^4}$

@ Expand: log 636 X2

109636 + log6 X2

6 = 36

2 + 21096X

Evaluate: $\frac{10948}{3} \log_4 48 = \frac{10948}{\log_4 7} \times \frac{12.792}{1094}$