

Section 5.3: cont'd

Thursday, November 20, 2014
8:34 AM

BAD MATH ALERT!

True or false?

$$\textcircled{1} \quad \log(M-N) = \log M - \log N$$

(F)

$$\textcircled{2} \quad \log(M-N) = \frac{\log M}{\log N}$$

(F)

$$\textcircled{3} \quad \log\left(\frac{M}{N}\right) = \frac{\log M}{\log N}$$

(F)

$$\textcircled{4} \quad \frac{\log M}{\log N} = \frac{M}{N}$$

(F)

$$\textcircled{5} \quad \frac{\log M}{\log N} = \frac{\ln M}{\ln N} = \log_N M$$

(T)

note: base-change:

$$\log_b c = \frac{\log_a c}{\log_a b}$$