

Logarithms quiz 2

Sunday, November 17, 2013
9:53 AM

① Write in index notation: $\log_3\left(\frac{1}{9}\right) = -2$

② Write in log notation: $25^{\frac{1}{2}} = 5$

③ Express as a single logarithm: $2\log_3(4) + \frac{1}{2}\log_3(36)$

④ Solve the following for the unknown:

$$\log_5(3x+2) = 2$$

⑤ Evaluate (Calculate the answer) of the following without using a calculator

a) $\log_2 40 - \log_2 5 =$

b) $\frac{\log_2 16}{\log_2 8} =$

c) $5\log_4(2) - \log_4(2)$

⑥ If $\log_6 5 = 0.898$ and $\log_6 4 = 0.774$
find values for:

a) $\log_6 20 =$

$$b) \log_6 1.25 =$$