

Attendance Quiz 3

Name: _____ Date : _____

1. Write the logarithmic equation in exponential form. For example, the exponential form of $\log_5 x = 2$ is $5^2 = x$ (In other words, $x = 5^2 = 25$).

(a) $\log x = 2$

(b) $\ln x = 3$

(c) $\log_4 x = 1$

(d) $\ln_5 x = 6$

2. Write the exponential equation in logarithmic form. For example, the logarithmic form of $2^x = 3$ is $\log_2 3 = x$ (In other words, $x = \log_2 3$).

(a) $10^x = 3$

(b) $e^x = 7$

(c) $3^x = 4$

(d) $8^x = 9$

3. Evaluate the expression without using a calculator.

(a) $\log_2 \frac{1}{8}$

(b) $\log 10000$

(c) $\ln \frac{1}{e^3}$

(d) $e^{\ln 6}$

(e) $\ln 1$

(f) $\log 1$