

Natural Log Practice Problems

Exercises:

1. Use your calculator to find the following:

(a) $\ln 1.4$

(b) $\ln 0.872$

(c) $\ln \frac{6.4 \times 3.8}{10}$

(d) $e^{0.62}$

(e) $e^{3.8}$

(f) $(e^{0.24})^2$

(g) $e^{1.4} \times e^{0.8}$

(h) $6e^{-4.1}$

(i) $\frac{e^{8.2}}{1068}$

(j) $e^{-2.4} \times e^{6.1} \div (8 + \ln 2)$

2. Simplify the following

(a) $\log x^2 - \log xy + 4 \log y$

(b) $\ln(8x)^{\frac{1}{2}} + \ln 4x^2 - \ln(16x)^{\frac{1}{2}}$

(c) $e^6 e^{-6}$

(d) $12e^7 \div 6e^2$

(e) $\ln e^2$

(f) $\ln(e^2 \ln e^3)$

3. Find x in each of the following:

(a) $\ln x = 2.7$

(b) $\ln(x + 1) = 1.86$

(c) $x = e^{9.8} \div e^{7.6}$

(d) $6.27 = e^x$

(e) $4.12 = e^{-2x}$