

Evaluate the following expressions by using properties of logarithms

1.  $\log_2 2^3$

2.  $3^{\log_3 5}$

3.  $e^{\ln 2}$

Expand the following logarithms

4.  $\log(ab)$

5.  $\log_2(xy^2)$

6.  $\log_7\left(\frac{49}{7}\right)$

7.  $\log_5(4x^2)$

8.  $\log\left(\frac{x}{7}\right)$

9.  $\log_3\left(\frac{x^2}{y}\right)$