

Homework – Properties of Logarithms

Expand the expression

1) $\log_3 2x^4$

2) $\ln \frac{3y}{\sqrt[4]{x}}$

3) $\log_2 \frac{(xy)^4}{z^2}$

Condense the expression

4) $\log 5 + \log x - 2\log b$

5) $\frac{1}{2}\log(x + 5) - 2\log x + \log y$