

STEP Exercises - Logs (1 page; 22/9/18)

(1) Show that $\log(4 - \sqrt{15}) = -\log(4 + \sqrt{15})$

(2) If $k = \log_{24} 12$, write the following in terms of k :

(a) $\log_{24} 2$ (b) $\log_{24} 6$

(3) Write $\log_2 3$ in terms of logs to the base 10

(4) Is $\log_2 3 > \frac{3}{2}$?

(5) Simplify $\frac{\log_x b}{\log_x a}$