



INDICES AND LOGARITHMS

Exercise **i.5**: Evaluate the following without using calculators:

a) $\log 18 - 2\log 2$

g) $\frac{\log 6 - \log 2}{\log 2 + \log 1}$

b) $\frac{3}{5}\log_2 32$

h) $2\log_{10} 5 + \log_{10} 36 - 2\log_{10} 3$

c) $\log 30 - \log 3$

d) $\log 216 - \log 8$

i) $\log_3(6x - 3) = 5$, solve for x .

f

e) $\log_a a^2 \div \log_a \sqrt{a}$

f) $\log 75 - \log 112 - \log 0.84$
