

Logarithmic and exponential functions

Change of base (2)



QUESTION 1 Express as a logarithm to the given base:

a $\log_4 11$ (base 2)

b $\log_{25} 6$ (base 5)

c $\log_{27} 32$ (base 3)

QUESTION 2 Find the value of x , correct to three decimal places:

a $3^x = 17$

b $2^x = 75$

c $5^x = 0.275$

d $2(6^x) = 45$

e $7^{x-1} = 16$

f $3 - 2^x = 0.37$
