

Using a calculator with logs

Use your calculator to find the following (write 3 significant figures):

$\log(1)$	$\log(10^{-2})$	$\log(\sqrt{10})$
$\log(2)$	$\log(2^2)$	$\log(2^3)$
$\log(2 \times 2)$	$\log(\sqrt{2})$	$\log(2^{1/3})$
$\log(4)$	$\log(4^{1/2})$	$\log(4^{1/6})$

e^1	e^2	e^{-2}
$\ln(1)$	$\ln(10)$	$\ln(100)$
$\ln(e)$	$\ln(\sqrt{e})$	$\ln(e^e)$

(The last two questions are not about using a calculator)

Write these equations using powers, e.g. $\log_3 81 = 4 \rightarrow 3^4 = 81$

$$\log_7 7 = 1$$

$$\log_3 1 = 0$$

$$\log_4 \left(\frac{1}{64} \right) = -3$$

Write these equations using logs, e.g. $8^2 = 64 \rightarrow \log_8 64 = 2$

$$10^3 = 1000$$

$$4^{-2} = \frac{1}{16}$$

$$x^z = y$$