

$$\text{k) } \log_{10} \frac{1}{\sqrt{1000}} = \log_{10} \frac{1}{1000^{\frac{1}{2}}} = \log_{10} 1000^{-\frac{1}{2}} = \log_{10} (10^3)^{-\frac{1}{2}} = \log_{10} 10^{-\frac{3}{2}} = -\frac{3}{2}$$

$$\text{l) } \log_5 \frac{1}{\sqrt[5]{5}} = \log_5 \frac{1}{5^{\frac{1}{5}}} = \log_5 5^{-\frac{1}{5}} = -\frac{1}{5}$$

