(d) Find the value of
(i) $10^{-2}$
(ii) $7^{0}$
(iii) $27^{\frac{2}{3}}$
13. (a) Find the value of $\left(\frac{27}{125}\right)^{-\frac{1}{3}}$
17. (a) Evaluate
(i) $3^{-2}$
(ii) $36^{\frac{1}{2}}$
(iii) $27^{\frac{2}{3}}$
(iv) $\left(\frac{16}{81}\right)^{-\frac{3}{4}}$
14. (a) Work out
(i) $8^{0}$
(ii) $5^{-2}$
(iii) $27^{\frac{1}{3}}$
(iv) $25^{\frac{1}{2}}$
(b) Given that $x=2^{k}$ and $\sqrt{\frac{4}{x}}=2^{c}$, find $c$ in terms of $k$.

$$
c=.
$$

