3 (a) Write down the value of $p$ and the value of $q$ given that:

3 (a) (i) $\sqrt{3}=3^{p}$
[1 mark]
$\qquad$
$\qquad$
$\qquad$

3 (a) (ii) $\frac{1}{9}=3^{q}$
$\qquad$
$\qquad$
$\qquad$

3 (b) Find the value of $x$ for which $\sqrt{3} \times 3^{x}=\frac{1}{9}$
$\qquad$
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