

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

3 (a) (i) $\sqrt{3} = 3^p$

[1 mark]

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

[1 mark]

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

[2 marks]