IGCSE – Indices – negative, fractional -1

Oct 02 Paper 2

7 Find the **exact** value of

(a) 3^{-2},

Answer (a) ..... [1]

(b) $\left(1\frac{7}{9}\right)^{\frac{1}{2}}$.

Answer (b) ..... [2]

May 02 Paper 2

14 (a) Write down the value of x^{-1}, x^0, $x^{\frac{1}{2}}$, and x^2 when $x = \frac{1}{4}$.

Answer (a) x^{-1} .....

$x^0 =$ .....

$x^{\frac{1}{2}} =$ .....

$x^2 =$ ..... [2]

(b) Write y^{-1}, y^0, y^2 and y^3 in increasing order of size when $y < -1$.

Answer (b) .....<.....<.....<..... [2]

Oct 03 Paper 2

8 **(a)** $3^x = \frac{1}{3}$.
Write down the value of x.

Answer (a) $x =$..... [1]

(b) $5^y = k$.
Find 5^{y+1}, in terms of k.

Answer (b) $5^{y+1} =$.....[1]

May 04 Paper 2

4 Simplify $\frac{2}{3}p^{12} \times \frac{3}{4}p^8$.

Answer ..... [2]