

## More Indices Questions

1) Simplify  $\left(\frac{1}{4}\right)^{-\frac{1}{2}}$

2) Simplify  $16^{\frac{3}{2}}$

3) Simplify  $\frac{x^{\frac{5}{3}} \times x^{-\frac{1}{3}}}{x^{-\frac{2}{3}}}$

4) Simplify  $\left(5^{\frac{1}{3}}\right)^{-6}$

5) If  $\sqrt{32}=2^k$ , state the value of  $k$

6) If  $\sqrt{50}-\sqrt{2}=2^k$ , state the value of  $k$

7) If  $9^c \times 3^5 = 3^k$ , express  $k$  in terms of  $c$

8) If  $27^x = 3^{x+5}$  find the value of  $x$

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