



Air maths tuition

Interact, engage and perform

Indices (Exponents) - Fractions to Negative Powers Exercise

Simplify 1) $\left(\frac{4}{3}\right)^{-2}$ 2) 0.3^{-4} 3) $\left(\frac{2}{7}\right)^{-1}$ 4) $\left(\frac{2x^4}{5y}\right)^{-3}$

① $\left(\frac{4}{3}\right)^{-2} = \left(\frac{3}{4}\right)^2$
 $= \frac{9}{16}$

② $(0.3)^{-4} = \left(\frac{3}{10}\right)^{-4}$
 $= \left(\frac{10}{3}\right)^4$
 $= \frac{10000}{81}$

③ $\left(\frac{2}{7}\right)^{-1} = \left(\frac{7}{2}\right)^1$
 $= \frac{7}{2}$

④ $\left(\frac{2x^4}{5y}\right)^{-3} = \left(\frac{5y}{2x^4}\right)^3$
 $= \frac{125y^3}{8x^{12}}$

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