



Air maths tuition

Interact, engage and perform

How to divide algebraic fractions

$$\frac{3}{4} \div \frac{7}{9} = \frac{3}{4} \times \frac{9}{7} = \frac{27}{28} \Rightarrow \frac{a}{b} \div \frac{c}{d} = \frac{\frac{a}{b}}{\frac{c}{d}} \times \frac{bd}{bd} = \frac{a}{b} \times \frac{d}{c}$$

① $\frac{ax^2}{b^3} \div \frac{a^3x}{bc} \equiv \frac{\cancel{ax^2}^1}{b^3} \times \frac{bc}{\cancel{a^3x}^1} \equiv \frac{cx}{a^2b^2}$

② $\frac{x^2 - x}{10x} \div \frac{x^2 - 1}{8x^2 - 4x} \equiv \frac{x^2 - x}{10x} \times \frac{8x^2 - 4x}{x^2 - 1}$
 $\equiv \frac{x(x-1)}{5 \cdot 2x} \times \frac{4x(2x-1)}{(x-1)(x+1)}$
 $\equiv \frac{2x(2x-1)}{5(x+1)}$

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