



Air maths tuition

Interact, engage and perform

How to multiply algebraic fractions

$$\frac{2}{3} \times \frac{4}{5} = \frac{8}{15}$$

⇒

$$\frac{a}{b} \times \frac{c}{d} \times \frac{e}{f} = \frac{ace}{bdf}$$

$$\frac{a^2}{b} \times \frac{b^3}{a^5} \equiv \frac{a^2 b^3}{a^5 b^1} \equiv \frac{b^2}{a^3} \quad \text{or} \quad \frac{a^2}{b^1} \times \frac{b^3}{a^5} \equiv \frac{b^2}{a^3}$$

$$\frac{x^2-9}{6x^3} \times \frac{6x^2-3xc}{2x^2+5xc-3} \times (x-3) \equiv \frac{(x-3)(x+3)}{2 \cancel{6} x^3 x^2} \times \frac{\cancel{3} x \cancel{(2xc-1)}}{(2xc-1)(x+3)} \times \frac{(x-3)}{1}$$
$$\equiv \frac{(x-3)^2}{2x^2}$$

$$\frac{x^2-x-2}{x^2+2xc+1} \times \frac{x^2-16}{x^2-6xc+8} \equiv \frac{(x-2)(x+1)}{(x+1)(x+1)} \times \frac{(x-4)(x+4)}{(x-4)(x-2)}$$
$$\equiv \frac{x+4}{x+1}$$

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