



Air maths tuition

Interact, engage and perform

Partial Fractions - Calculating Constants - 2 linear factors

Express $\frac{3x}{(x+2)(x-1)}$ in partial fractions

$$\frac{3x}{(x+2)(x-1)} \equiv \frac{A}{x+2} + \frac{B}{x-1}$$

$$\therefore \frac{3x}{(x+2)(x-1)} \equiv \frac{A}{x+2} + \frac{B}{x-1}$$

$$\therefore 3x \equiv A(x-1) + B(x+2)$$

$$\text{when } x=1, \quad 3 = 3B$$

$$\therefore B = 1$$

$$\text{when } x=-2, \quad -6 = -3A$$

$$\therefore A = 2$$

$$\therefore \frac{3x}{(x+2)(x-1)} \equiv \frac{2}{x+2} + \frac{1}{x-1}$$

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