



Air maths tuition

Interact, engage and perform

Partial Fraction | Past Paper Question | C4 Edexcel June 2010 Q5(a)

$$\frac{2x^2 + 5x - 10}{(x-1)(x+2)} \equiv A + \frac{B}{x-1} + \frac{C}{x+2}$$

$$\therefore 2x^2 + 5x - 10 \equiv A(x-1)(x+2) + B(x+2) + C(x-1)$$

when $x=1$

$$\therefore 2 + 5 - 10 = 3B \Rightarrow -3 = 3B \Rightarrow B = -1$$

when $x=-2$

$$\therefore 2(-2)^2 + 5(-2) - 10 = -3C \Rightarrow -12 = -3C \Rightarrow C = 4$$

when $x=0$

$$\therefore -10 = -2A + 2B - C$$

$$\therefore -10 = -2A - 2 - 4$$

$$\therefore -4 = -2A \Rightarrow A = 2$$

$$\therefore A = 2, B = -1, C = 4$$

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