



Air maths tuition

Interact, engage and perform

Rational Expressions | Past Paper Question | Edexcel C3 January 2011 Q2a

$$\begin{aligned}\frac{4x-1}{2(x-1)} - \frac{3}{2(x-1)(2x-1)} &\equiv \frac{4x-1}{2(2x-1)} \frac{(2x-1)}{(2x-1)} - \frac{3}{2(x-1)(2x-1)} \\ &\equiv \frac{(4x-1)(2x-1) - 3}{2(2x-1)(2x-1)} \\ &\equiv \frac{8x^2 - 4x - 2x + 1 - 3}{2(x-1)(2x-1)} \\ &\equiv \frac{8x^2 - 6x - 2}{2(x-1)(2x-1)} \\ &\equiv \frac{2(4x^2 - 3x - 1)}{2(x-1)(2x-1)} \\ &\equiv \frac{2(4x+1)(x-1)}{2(x-1)(2x-1)} \equiv \frac{4x+1}{2x-1}\end{aligned}$$

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