



Air maths tuition

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# Simplify

| Past Paper Question | Edexcel C3 June  
2006 Q1

① (a) 
$$\frac{3x^2 - x - 2}{x^2 - 1} = \frac{(3x + 2)(x - 1)}{(x + 1)(x - 1)}$$
$$= \frac{3x + 2}{x + 1}$$

(b) 
$$\frac{3x^2 - x - 2}{x^2 - 1} - \frac{1}{x(x + 1)} = \frac{3x + 2}{x + 1} - \frac{1}{x(x + 1)}$$
$$= \frac{x(3x + 2) - 1(1)}{x(x + 1)}$$
$$= \frac{3x^2 + 2x - 1}{x(x + 1)}$$
$$= \frac{(3x - 1)(x + 1)}{x(x + 1)}$$
$$= \frac{3x - 1}{x}$$

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