16 (a)	eg $\frac{5\times x}{8\times x}-\frac{2(x+2)}{2\times 4x}$ **or** $\frac{5x}{8x}-\frac{2x+4}{8x}$ **or** $\frac{5x-2(x+2)}{8x}$ **or** $\frac{4\times 5x}{4\times 8x}-\frac{8(x+2)}{8\times 4x}$ **or** $\frac{20x}{32x}-\frac{8x+16}{32x}$ **or** $\frac{20x-8(x+2)}{32x}$ oe		3	M1 for two correct fractions with a common denominator **or** a single correct fraction condone M1 for $\frac{5x-2x+4}{8x}$ or $\frac{3x+4}{8x}$ or $\frac{20x-8x+16}{32x}$ or $\frac{12x+16}{32x}$
	eg $\frac{5x-2x-4}{8x}$ **or** $\frac{20x-8x-16}{32x}$ **or** $\frac{12x-16}{32x}$ oe			M1 for a correct single fraction with bracket expanded
	Correct answer scores full marks (unless from obvious incorrect working)	$\frac{3x-4}{8x}$		A1 oe but must be in simplest form eg $\frac{-4+3x}{8x}$ ISW correct separating into 2 fractions eg $\frac{3x-4}{8x}=\frac{3}{8}-\frac{1}{2x}$ Do not ISW incorrect simplification eg $\frac{3x-4}{8x}=-\frac{1}{8}$ is M2A0

(b)	eg $3x(2x-1)=6x^2-3x$ **or** $3x(x+4)=3x^2+12x$ **or** $(2x-1)(x+4)=2x^2+8x-x-4(=2x^2+7x-4)$		3	M1	for sight of $6x^2-3x$ or $3x^2+12x$ or $2x^2+8x-x-4$ or $2x^2+7x-4$ or for an expansion with only one error	M2 for 3 (out of a maximum of 4) of $6x^3+24x^2-3x^2-12x$ this can be implied by $6x^3+21x^2...$ or $...+21x^2-12x$ (M1 for 2 correct out of a maximum of 4)
	eg $[(6x^2-3x)(x+4)=]\ 6x^3+24x^2-3x^2-12x$ **or** $[(3x^2+12x)(2x-1)=]\ 6x^3-3x^2+24x^2-12x$ **or** $[3x(2x^2+8x-x-4)=]\ 6x^3+24x^2-3x^2-12x$ **or** $[3x(2x^2+7x-4)=]\ 6x^3+21x^2-12x$			M1	ft dep on M1 and a quadratic expression Allow one further error	
	Correct answer scores full marks (unless from obvious incorrect working)	$6x^3+21x^2-12x$		A1	cao (terms may be in any order but must be simplified) ISW correct factorisation eg $3\left(2x^3+7x^2-4x\right)$ Do not ISW incorrect simplification eg $6x^3+21x^2-12x=2x^3+7x^2-4x$	
						Total 6 marks