12	(a)	$n(3n^2+5n-12n-20)$ **or** $n(3n^2-7n-20)$ **or** $(3n^2+5n)(n-4)$ **or** $(n^2-4n)(3n+5)$ **or** $3n^3+5n^2-12n^2-20n$		2	M1 for a correct partial expansion (may be unsimplified) (allow one error in the expansion of $(n-4)(3n+5)$ e.g. for any 3 correct terms **or** for 4 out of 4 correct terms ignoring signs **or** for $3n^2-7n\ldots$ **or** for $\ldots-7n-20)$
			$3n^3-7n^2-20n$		A1 oe e.g. if correct answer seen allow further factorisation to $n(3n^2-7n-20)$
	(b)	$\frac{12}{4x}+\frac{2(x+2)}{4x}+\frac{x}{4x}$ oe **or** $\frac{12+2(x+2)+x}{4x}$ oe $\frac{3(8x)}{8x^2}+\frac{4x(x+2)}{8x^2}+\frac{2x^2}{8x^2}$ oe **or** $\frac{3(8x)+4x(x+2)+2x^2}{8x^2}$ oe		3	M1 for three correct fractions with a common denominator **or** a single correct fraction
		$\frac{12+2x+4+x}{4x}$ oe **or** $\frac{24x+4x^2+8x+2x^2}{8x^2}$ oe **or** $\frac{6x^2+32x}{8x^2}$ oe **or** $\frac{3x^2+16x}{4x^2}$ oe **or** $\frac{6x+32}{8x}$ oe			M1 for a correct single fraction with brackets expanded
			$\frac{3x+16}{4x}$		A1 oe $\frac{16+3x}{4x}$
					Total 5 marks