16 (a)	$(3x-1)(x+2)=3x^2+6x-x-2(=3x^2+5x-2)$ **or** $(3x-1)(3x+1)=9x^2+3x-3x-1(=9x^2-1)$ **or** $(x+2)(3x+1)=3x^2+x+6x+2(=3x^2+7x+2)$		3	M1	for a correct intention to multiply all 3 factors by multiplying 2 factors only, allow one error
	$[(3x^2+5x-2)(3x+1)=]\ 9x^3+15x^2-6x+3x^2+5x-2$ **or** $[(9x^2-1)(x+2)=]\ 9x^3+18x^2-x-2$ **or** $[(3x^2+7x+2)(3x-1)=]\ 9x^3+21x^2+6x-3x^2-7x-2$			M1	(dep)ft for expanding by the third factor, allow one error
		$9x^3+18x^2-x-2$		A1	
	ALTERNATIVE				
	$9x^3+3x^2+18x^2+6x-3x^2-x-6x-2$		3	M2	for a complete expansion with 8 terms present, at least 4 of which must be correct
		$9x^3+18x^2-x-2$		A1	
(b)	$\left(\frac{8xy^2}{2x^5}\right)^2$ **or** $\left(\frac{x^4}{4y^2}\right)^{-2}$ **or** $\left(\frac{4x^{10}}{64x^2y^4}\right)^{-1}$		3	M1	for one of reciprocating or simplifying or squaring
	$\left(\frac{4y^2}{x^4}\right)^2$ **or** $\left(\frac{x^8}{16y^4}\right)^{-1}$ **or** $\frac{64x^2y^4}{4x^{10}}$ **or** $\frac{\frac{1}{4}x^{-10}}{\frac{1}{64}x^{-2}y^{-4}}$			M1	for two of reciprocating or simplifying or squaring
		$\frac{16y^4}{x^8}$		A1	accept $16y^4x^{-8}$ or $\frac{16}{y^{-4}x^8}$ or $\frac{16x^{-8}}{y^{-4}}$ oe
	ALTERNATIVE				
			3	M2	for 2 correct terms (M1 for 1 correct term)
		$\frac{16y^4}{x^8}$		A1	accept $16y^4x^{-8}$ or $\frac{16}{y^{-4}x^8}$ or $\frac{16x^{-8}}{y^{-4}}$ oe
					Total 6 marks