

Question	Answer	Marks
7(a)	State or imply the form $\frac{A}{2x-1} + \frac{B}{2x+1}$ and use a relevant method to find A or B	M1
	Obtain $A = 1, B = -1$	A1
		2
7(b)	Square the result of part (a) and substitute the fractions of part (a)	M1
	Obtain the given answer correctly	A1
		2
7(c)	Integrate and obtain $-\frac{1}{2(2x-1)} - \frac{1}{2}\ln(2x-1) + \frac{1}{2}\ln(2x+1) - \frac{1}{2(2x+1)}$, or equivalent	B3, 2, 1, 0
	Substitute limits correctly	M1
	Obtain the given answer correctly	A1
		5

Question	Answer	Marks	Guidance
2	State a correct unsimplified term in x or x^2 of the expansion of either $(1+2x)^{\frac{1}{2}}$ or $(1-2x)^{-\frac{1}{2}}$	B1	
	State correct unsimplified expansion of $(1+2x)^{\frac{1}{2}}$ up to the term in x^2	B1	
	State correct unsimplified expansion of $(1-2x)^{-\frac{1}{2}}$ up to the term in x^2	B1	
	Obtain sufficient terms of the product of the expansions	M1	
	Obtain final answer $1 + 2x + 2x^2$	A1	

Question	Answer	Marks	Guidance
5	State or imply the form $A + \frac{B}{x-1} + \frac{C}{2x+1}$	B1	
	Use a correct method for finding a constant	M1	Correct appropriate method.
	Obtain one of $A = 3, B = 2$ and $C = -3$	A1	
	Obtain a second value	A1	
	Obtain a third value	A1	