

**PURE MATHEMATICS**  
**A level Practice Paper**

**Set 13**  
**MARK SCHEME**

<b>1</b>	Correctly factorises the denominator of the left-hand fraction: $\frac{6}{(2x+5)(2x-1)} + \frac{3x+1}{2x-1}$	<b>M1</b>
	Multiplies the right-hand fraction by $\frac{2x+5}{2x+5}$ For example: $\frac{6}{(2x+5)(2x-1)} + \frac{(3x+1)(2x+5)}{(2x-1)(2x+5)}$ is seen.	<b>M1</b>
	Makes an attempt to distribute the numerator of the right-hand fraction. For example: $\frac{6+6x^2+17x+5}{(2x+5)(2x-1)}$ is seen.	<b>M1</b>
	Fully simplified answer is seen. Accept either $\frac{6x^2+17x+11}{(2x+5)(2x-1)}$ or $\frac{(6x+11)(x+1)}{(2x+5)(2x-1)}$	<b>A1</b>
	<b>TOTAL: 4 marks</b>	

<b>2a</b>	Uses $a_n = a + (n-1)d$ substituting $a = 5$ and $d = 3$ to get $a_n = 5 + (n-1)3$	<b>M1</b>
	Simplifies to state $a_n = 3n + 2$	<b>A1</b>
		<b>(2 marks)</b>
<b>2b</b>	Use the sum of an arithmetic series to state $\frac{k}{2}[10 + (k-1)3] = 948$	<b>M1</b>
	States correct final answer $3k^2 + 7k - 1896 = 0$	<b>A1</b>
		<b>(2 marks)</b>
	<b>TOTAL: 4 marks</b>	

# 13 Mathematics SI Mark Scheme

**Daniel F McAuley**



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