Question			Answer	Marks	AOs	Guidance	
1			**DR** $\int_4^9 \left(2x + x^{\frac{1}{2}}\right) \mathrm{d}x = \left[x^2 + \frac{x^{\frac{3}{2}}}{\frac{3}{2}}\right]_4^9$	**M1***	**2.1**	Attempt to integrate using fractional power	
			$\left(9^2 + \frac{2}{3} \times 9^{\frac{3}{2}}\right) - \left(4^2 + \frac{2}{3} \times 4^{\frac{3}{2}}\right)$	**M1 (dep)**	**2.1**	Use of limits must be seen	
			$\left[81 + 18 - 16 - \frac{16}{3}\right] = \frac{233}{3}$	**A1**	**2.1**	**AG** Any interim working must be correct	
				[3]			