Question	Answer	Marks	Partial Marks
4	$y = \tan x$	**B1**	
	$\frac{\mathrm{d}y}{\mathrm{d}x} = \sec^2 x$	**B1**	**Alternative method for first 2 marks:** **B1** for $\frac{\mathrm{d}u}{\mathrm{d}x} = \cos x$ and $\frac{\mathrm{d}v}{\mathrm{d}x} = -\sin x$ **B1** for $\frac{\cos^2 x - (-\sin^2 x)}{\cos^2 x}$; allow unsimplified
	$\frac{\delta y}{h} = their \left.\frac{\mathrm{d}y}{\mathrm{d}x}\right\|_{x=-\frac{\pi}{4}}$	**M1**	
	$2h$	**A1**	
5(a)	$(2x - 3)(x - 7)$	**M1**	
	CV 1.5, 7	**A1**	
	$1.5 \leqslant x \leqslant 7$ nfww	**A1**	**FT** *their* CVs
5(b)	$\int_{their\,1.5}^{their\,7} (2x^2 - 17x + 21)\,\mathrm{d}x$ $= \left[\frac{2x^3}{3} - \frac{17x^2}{2} + 21x\right]_{their\,1.5}^{their\,7}$	**B1**	
	F(*their* 7) – F(*their* 1.5)	**M1**	**FT** *their* 7 and *their* 1.5 from (a); must have at least two terms correct
	$[-\frac{1331}{24}$, therefore area =] $\frac{1331}{24}$ isw or 55.5 or 55.4583333... rot to 4 or more sig figs; nfww	**A1**	
6(a)	p(–0.25) = $36(-0.25)^3 - 15(-0.25)^2 - 2(-0.25) + 1$ = 0 oe	**B1**	