Question	Answer	Marks	Partial Marks
6	$\frac{\mathrm{d}}{\mathrm{d}x}(\sin^2 x) = 2\sin x\cos x$ soi	**B1**	
	$\cos x \times \textit{their}(2\sin x\cos x) +$ $(\textit{their} - \sin x) \times \sin^2 x$	**M1**	**FT** *their* $\frac{\mathrm{d}}{\mathrm{d}x}(\sin^2 x)$
	$\cos x \times \textit{their}(2\sin x\cos x) + (-\sin x) \times \sin^2 x$ isw	**A1**	**FT** *their* $\frac{\mathrm{d}}{\mathrm{d}x}(\sin^2 x)$
	$\frac{\delta y}{h} = \textit{their}(2\sin 3\cos^2 3 - \sin^3 3)$ or better	**M1**	**FT** *their* derivative
	0.274h or 0.2738[08...]h where the coefficient of h is rot to 4 or more sf	**A1**	**dep** on correct derivative seen
7	$\frac{\mathrm{d}y}{\mathrm{d}x} = 2mx + \frac{1}{2}$	**B1**	
	$\frac{\mathrm{d}^2 y}{\mathrm{d}x^2} = 2m$	**B1**	
	$m = \frac{1}{4}$ and $n = -\frac{5}{4}$ and no other values	**2**	**M1** for $3(2m) = \left(2mx + \frac{1}{2}\right)^2 - \left(mx^2 + \frac{x}{2} + n\right)$ soi