Question			Answer	Marks	AO	Guidance	
5	(a)		**DR** $\frac{dy}{dx} = 3x^2 - 10x + 6$ When $x = 0$ $\frac{dy}{dx} = 6$ Tangent goes through origin so equation is $y = 6x$ cao	**M1** **M1** **A1** **[3]**	**1.1** **1.1** **1.1**	At least two terms correct FT *their* $\frac{dy}{dx}$ **Need reasoning** eg $y - 0 = 6(x - 0)$ or use of $y = mx + c$ $y = 6x$ implies previous **M** mark	
5	(b)		**DR** When $x = 1$ $\frac{dy}{dx} = -1$ Gradient of normal is 1 $[(y-2) = (x-1)$ so$]$ $y = x + 1$	**M1** **M1** **A1** **[3]**	**1.1** **1.1** **1.1**	FT *their* $\frac{dy}{dx}$ from (a) FT negative reciprocal of *their* $\frac{dy}{dx}$. oe but constant terms should be collected	
5	(c)		**DR** $6x = x + 1$ $x = \frac{1}{5}$, $y = \frac{6}{5}$ oe	**M1** **A1** **[2]**	**1.1** **1.1**	Eliminate a variable FT their equations from (a) and (b) for **M1** only	