Question		Answer	Marks	AO	Guidance	
7	(a)	$\left(\frac{\mathrm{d}y}{\mathrm{d}x}\right) = 8x - 10$	B1	1.1	Correct derivative	
		At $\left(\frac{1}{2},3\right)$: $m_T = -6 \Longrightarrow m_N = \frac{1}{6}$	M1*	1.2	Substitutes $x = 0.5$ into their two-term derivative and using product of gradients is -1	
		$y - 3 = \frac{1}{6} \left(x - \frac{1}{2} \right)$	M1dep*	1.1	Using $y-3=m(x-\frac{1}{2})$ with $m \neq -6$ or their tangent gradient (so must have attempted normal gradient)	Or using $y = mx + c$
		2x - 12y + 35 = 0	A1 [4]	1.1	Must = 0 and integer coefficients	All terms on one side
	(b)	$x \ge 1.25$	B1	1.1		$(y'=0 \Rightarrow x=1.25)$
		$y \geq 4x^2 - 10x + 7$	B1	2.2a		
		$2x - 12y + 35 \ge 0$	B1FT	2.2a	o.e. Follow through their (a)	SCB2 if all "correct" (including FT from (a)), but either all strict or a mix of strict and non-strict inequalities used
			[3]			