A Level Maths - Edexcel - Predicted Paper 2 - 2023

Question	Scheme	Marks	AOs
1(a)	$m = \frac{5 - (-2)}{7 - (-3)}$ or $m = \frac{-2 - 5}{-3 - 7}$	М1	1.16
	$m = \frac{7}{10}$	A1	1.16
		(2)	
(b)	$y-5=\frac{7}{10}(x-7)$	М1	1.16
	7x - 10y + 1 = 0	Al	3.1b
		(2)	
(c)	$m_N = -\frac{10}{7}$	B1ft	1.1ъ
		(1)	

(5 marks)

Question	Scheme	Mark	AOs
2(a)(t)	$\frac{\mathrm{d}y}{\mathrm{d}x} = 3\alpha x^2 + 2bx + 12$	M1 A1	1.1b
(II)	$\frac{d^2y}{dx^2} = 6ax + 2b$	Alft	1,116
	- TO	(3)	
(b)	$\frac{13}{2} = a\left(\frac{3}{2}\right)^3 + b\left(\frac{3}{2}\right)^2 + 12\left(\frac{3}{2}\right) + 2, 6a\left(\frac{3}{2}\right) + 2b = 0$ $\Rightarrow a =, b =$	М1	3.1a
	a = 2, b = -9	A1	1.11
		(2)	
(e)	$\left(\frac{d^2 y}{dx^2}\right)_{x=1} = 12(1) - 18, \left(\frac{d^2 y}{dx^2}\right)_{x=2} = 12(2) - 18$ or $\left(\frac{d^2 y}{dx^2}\right)_{(x=\frac{3}{2})} = 12$	М1	2.1
	$\left(\frac{d^2y}{dx^2}\right)_{x=1} < 0, \qquad \left(\frac{d^2y}{dx^2}\right)_{x=2} > 0$ or $\left(\frac{d^3y}{dx^3}\right)_{\left(x=\frac{y}{2}\right)} = 0$ Hence point of inflection	Al	2.2a
	rease point of infreedom	(2)	

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Padhraic Smyth

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