

A Level Maths - Edexcel – Predicted Paper 2 – 2023

Question	Scheme	Marks	AOs
1(a)	$m = \frac{5 - (-2)}{7 - (-3)} \quad \text{or} \quad m = \frac{-2 - 5}{-3 - 7}$	M1	1.1b
	$m = \frac{7}{10}$	A1	1.1b
		(2)	
(b)	$y - 5 = \frac{7}{10}(x - 7)$	M1	1.1b
	$7x - 10y + 1 = 0$	A1	1.1b
		(2)	
(c)	$m_N = -\frac{10}{7}$	B1ft	1.1b
		(1)	
(5 marks)			

Question	Scheme	Marks	AOs
2(a)(i)	$\frac{dy}{dx} = 3ax^2 + 2bx + 12$	M1	1.1b
		A1	1.1b
(ii)	$\frac{d^2y}{dx^2} = 6ax + 2b$	A1ft	1.1b
		(3)	
(b)	$\frac{13}{2} = a\left(\frac{3}{2}\right)^2 + b\left(\frac{3}{2}\right)^2 + 12\left(\frac{3}{2}\right) + 2, \quad 6a\left(\frac{3}{2}\right) + 2b = 0$	M1	3.1a
	$\Rightarrow a = \dots, b = \dots$		
	$a = 2, b = -9$	A1	1.1b
(c)		(2)	
	$\left(\frac{d^2y}{dx^2}\right)_{x=1} = 12(1) - 18, \quad \left(\frac{d^2y}{dx^2}\right)_{x=2} = 12(2) - 18$		
	or		
	$\left(\frac{d^2y}{dx^2}\right)_{\left(x=\frac{3}{2}\right)} = 12$	M1	2.1
	$\left(\frac{d^2y}{dx^2}\right)_{x=1} < 0, \quad \left(\frac{d^2y}{dx^2}\right)_{x=2} > 0$		
	or		
	$\left(\frac{d^3y}{dx^3}\right)_{\left(x=\frac{3}{2}\right)} \neq 0$	A1	2.2a
	Hence point of inflection		
		(2)	
(7 marks)			

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