

# A Level Maths - Edexcel - Predicted Paper 2 - 2023

| Question  | Scheme                                                                | Marks | AOs  |
|-----------|-----------------------------------------------------------------------|-------|------|
| 1(a)      | $m = \frac{5 - (-2)}{7 - (-3)} \text{ or } m = \frac{-2 - 5}{-3 - 7}$ | 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)       | $m_{\perp} = -\frac{10}{7}$                                           | 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)      | $\frac{13}{2} = a\left(\frac{3}{2}\right)^2 + b\left(\frac{3}{2}\right) + 12\left(\frac{3}{2}\right) + 2, \quad 6a\left(\frac{3}{2}\right) + 2b = 0$ | 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                                                                                                                                                   | M1    | 2.1  |
|          | $\left[\frac{d^2y}{dx^2}\right]_{x=\frac{3}{2}} = 12$                                                                                                |       |      |
|          | $\left[\frac{d^2y}{dx^2}\right]_{x=1} < 0, \quad \left[\frac{d^2y}{dx^2}\right]_{x=2} > 0$                                                           |       |      |
|          | or                                                                                                                                                   |       |      |
|          | $\left[\frac{d^2y}{dx^2}\right]_{x=\frac{3}{2}} \neq 0$                                                                                              | A1    | 2.2a |
|          | Hence point of inflection                                                                                                                            |       |      |
|          |                                                                                                                                                      | (2)   |      |
|          | (7 marks)                                                                                                                                            |       |      |

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**SA Adler**



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