

Suggested Solutions to 2014 SH2 H2 Mathematics Preliminary Examination Paper 1

1 (i)	Since $A(-1, 20)$ lies on the curve, $a(-1)^2 + b(-1) + c = 20 \Rightarrow a - b + c = 20 \quad (1)$ Since $B(3, 4)$ lies on the curve, $a(3)^2 + b(3) + c = 4 \Rightarrow 9a + 3b + c = 4 \quad (2)$ Since $B(3, 4)$ is a stationary point, $2a(3) + b = 0 \Rightarrow 6a + b = 0 \quad (3)$ $\begin{array}{l} \text{SYS MATRIX (3 x 3)} \\ \begin{array}{ccc c} 1 & -1 & 1 & 20 \\ 9 & 3 & 1 & 4 \\ 6 & 1 & 0 & 0 \end{array} \end{array}$ $\begin{array}{l} \text{Solution} \\ x_1 = 1 \\ x_2 = -6 \\ x_3 = 13 \end{array}$ $1 + 1 = 2$ $\text{MATHS EDITOR} \text{SOLVE} \text{MATHS EDITOR} \text{SOLVE} \text{MATHS EDITOR} \text{SOLVE}$ $a = 1, b = -6, c = 13$
1 (ii)	$y = x^2 - 6x + 13 = (x - 3)^2 + 4$ Hence $y = x^2$ ↓ translate 3 units in the positive x-direction $y = (x - 3)^2$ ↓ translate 4 units in the positive y-direction $y = (x - 3)^2 + 4 = x^2 - 6x + 13$
2	$\int \frac{x}{(1+4x^2)^2} dx = \int \frac{1}{8} \cdot \frac{8x}{(1+4x^2)^2} dx$ $= -\frac{1}{8} \left(\frac{1}{1+4x^2} \right) + c$ $\int \frac{4x^2}{(1+4x^2)^2} dx = \int 4x \cdot \frac{x}{(1+4x^2)^2} dx$ $= 4x \left(-\frac{1}{8(1+4x^2)} \right) - \int 4 \left(-\frac{1}{8(1+4x^2)} \right) dx$ $= -\frac{x}{2(1+4x^2)} + \int \frac{1}{2(1+4x^2)} dx$ $= -\frac{x}{2(1+4x^2)} + \frac{1}{4} \tan^{-1} 2x + c$

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A Loxley



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