

Suggested Solutions to 2014 SH2 H2 Mathematics Preliminary Examination Paper 1

1 (i)	<p>Since $A(-1, 20)$ lies on the curve,</p> $a(-1)^2 + b(-1) + c = 20 \Rightarrow a - b + c = 20 \quad (1)$ <p>Since $B(3, 4)$ lies on the curve,</p> $a(3)^2 + b(3) + c = 4 \Rightarrow 9a + 3b + c = 4 \quad (2)$ <p>Since $B(3, 4)$ is a stationary point,</p> $2a(3) + b = 0 \Rightarrow 6a + b = 0 \quad (3)$ <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>SYSTRMTRIX (3 x 3)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-right: 1px solid black; padding: 2px 10px;">$\begin{bmatrix} 1 & -1 & 1 \\ 9 & 3 & 1 \\ 6 & 1 & 0 \end{bmatrix}$</td> <td style="padding: 2px 10px;">$\begin{bmatrix} 20 \\ 4 \\ 0 \end{bmatrix}$</td> </tr> </table> <p>Solution</p> <p>$x_1 = 1$ $x_2 = -6$ $x_3 = 13$</p> <p>$a = 1, b = -6, c = 13$</p> </div> <p>$a = 1, b = -6, c = 13$</p>	$\begin{bmatrix} 1 & -1 & 1 \\ 9 & 3 & 1 \\ 6 & 1 & 0 \end{bmatrix}$	$\begin{bmatrix} 20 \\ 4 \\ 0 \end{bmatrix}$
$\begin{bmatrix} 1 & -1 & 1 \\ 9 & 3 & 1 \\ 6 & 1 & 0 \end{bmatrix}$	$\begin{bmatrix} 20 \\ 4 \\ 0 \end{bmatrix}$		
1 (ii)	<p>$y = x^2 - 6x + 13 = (x - 3)^2 + 4$</p> <p>Hence</p> <p>$y = x^2$</p> <p>↓ translate 3 units in the positive x-direction</p> <p>$y = (x - 3)^2$</p> <p>↓ translate 4 units in the positive y-direction</p> <p>$y = (x - 3)^2 + 4 = x^2 - 6x + 13$</p>		
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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