Suggested Solutions to 2014 SH2 H2 Mathematics Preliminary Examination Paper 1

1 (i)	Since $A(-1, 20)$ lies on the curve,
	$a(-1)^2 + b(-1) + c = 20 \implies a - b + c = 20 - (1)$
	Since $B(3, 4)$ lies on the curve,
	$a(3)^2 + b(3) + c = 4 \implies 9a + 3b + c = 4 - (2)$
	Since $B(3, 4)$ is a stationary point,
	$2a(3) + b = 0 \implies 6a + b = 0 - (3)$
	SYSPHETRIE (30%) SOLUTION STEP 1 1 20 1 ×101 SOLUTION SOLUTION
	a = 1, b = -6, c = 13
1 (ii)	$y = x^2 - 6x + 13 = (x - 3)^2 + 4$
	Hence
	$y = x^2$
	\downarrow translate 3 units in the positive x-direction $y = (x-3)^2$
	y = (x - 3). ↓ translate 4 units in the positive y-direction
	+ translate 4 units in the positive y-direction $y = (x-3)^2 + 4 = x^2 - 6x + 13$
2	
	$\int \frac{x}{(1+4x^2)^2} dx = \int \frac{1}{8} \cdot \frac{8x}{(1+4x^2)^2} dx$
	$=-\frac{1}{8}\left(\frac{1}{1+4x^3}\right)+c$
	$\int \frac{4x^2}{(1+4x^2)^2} dx = \int 4x \cdot \frac{x}{(1+4x^2)^2} dx$
	$= 4x \left(-\frac{1}{8(1+4x^2)} \right) - \int 4 \left[-\frac{1}{8(1+4x^2)} \right] dx$
	$= -\frac{x}{2(1+4x^2)} + \int \frac{1}{2(1+4x^2)} dx$
	$= -\frac{x}{2(1+4x^2)} + \frac{1}{4} \tan^{-1} 2x + c$

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