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	
	$\int \frac{x}{(1+4x^2)^2} dx = \int \frac{1}{8} \cdot \frac{8x}{(1+4x^2)^2} dx$
	$=-\frac{1}{8}\left(\frac{1}{1+4x^3}\right)+c$
	$\int \frac{4x^2}{(1+4x^2)^2} dx = \int 4x \cdot \frac{x}{(1+4x^2)^2} dx$
	$= 4x \left(-\frac{1}{8(1+4x^2)} \right) - \int 4 \left[-\frac{1}{8(1+4x^2)} \right] dx$
	$= -\frac{x}{2(1+4x^2)} + \int \frac{1}{2(1+4x^2)} dx$
	$= -\frac{x}{2(1+4x^2)} + \frac{1}{4} \tan^{-1} 2x + c$

Maths Prelim Exam 2014

Daniela Niemeyer

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Math Chapterwise Solved Questions SSC CHSL HIGHER SECONDARY LEVEL Mocktime Publication, Math Chapterwise Solved Questions SSC CHSL HIGHER SECONDARY LEVEL keywords ssc central police forces cpo capf ssc combined graduate level cgl combined higher secondary level exam chsl 10 2 level exam ssc ldc udc data entry operator exam ssc mts matriculation level exam ssc je civil mechanical electrical engineering exam ssc scientific assistant exam ssc english ajay kumar singh ssc english by neetu singh ssc english grammar ssc english arihant publication ssc previous year solved papers ssc general awareness ssc gk lucent ssc math rakesh yadav ssc previous year question bank ssc reasoning chapterwise solved papers ssc disha books ssc cgl questions ssc cpo questions ssc mts questions ssc chsl questions ssc ldc clerk ssc practice sets ssc online test ssc math chapterwise solved papers ssc english kiran publication ssc cgl cpo mts chsl je exam books ssc online practice sets for computer based exam ssc kiran books disha arihant lucen gk ssc neetu singh rakesh yadav ajay singh books ssc history geography polity economy science mcg ssc math reasoning english gk chapterwise papers last year previous year solved papers online practice test papers mock test papers computer based practice sets online test series exam guide manual books gk general knowledge awareness mathematics quantitative aptitude reasoning english previous year questions Math Chapterwise Solved Questions SSC MTS MULTI-TASKING STAFF Mocktime Publication, Math mcqs Chapterwise Solved Questions SSC MTS MULTI TASKING STAFF keywords ssc central police forces cpo capf ssc combined graduate level cgl combined higher secondary level exam chsl 10 2 level exam ssc ldc udc data entry operator exam ssc mts matriculation level exam ssc je civil mechanical electrical engineering exam ssc scientific assistant exam ssc english ajay kumar singh ssc english by neetu singh ssc english grammar ssc english arihant publication ssc previous year solved papers ssc general awareness ssc gk lucent ssc math rakesh yadav ssc previous year question bank ssc reasoning chapterwise solved papers ssc disha books ssc cgl questions ssc cpo questions ssc mts questions ssc chsl questions ssc ldc clerk ssc practice sets ssc online test ssc math chapterwise solved papers ssc english kiran publication ssc cgl cpo mts chsl je exam books ssc online practice sets for computer based exam ssc kiran books disha arihant lucen gk ssc neetu singh rakesh yadav ajay singh books ssc history geography polity economy science mcg ssc math reasoning english gk chapterwise papers last year previous year solved papers online practice test papers mock test papers computer based practice sets online test series exam guide manual books gk general knowledge awareness mathematics quantitative aptitude reasoning english previous year questions Math Chapterwise Solved Questions SSC CGL COMBINED GRADUATE LEVEL Mocktime Publication, Math mcgs Chapterwise Solved Questions SSC CGL COMBINED GRADUATE LEVEL keywords ssc central police forces cpo capf ssc combined graduate level cgl combined higher secondary level exam chsl 10 2 level exam ssc ldc udc data entry operator exam ssc mts matriculation level exam ssc je civil mechanical electrical engineering exam ssc scientific assistant exam ssc english ajay kumar singh ssc english by neetu singh ssc english grammar ssc english arihant publication ssc previous year

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