Question 10

2010 HSC Mathematics

Band 3/4

Sample 1 Start here for Question Number: 10 5 T2 2 DCA = 2 DAC in Ti (10000kes mage her 2 equal slobs 32 equad ago (isoseles as L(BA = L(AB In T2 proce alore) · becase LCBA = 2 CAD also = LDCA HT 2 angles equal LACB = O pioner any trages are isoscales :- if 2 ages a in bor trages 3rd ages must be equal in eace therefor all ages = 180 ..

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	Sample-1-
$\frac{1}{1} x^2 = a^2 + ay$ $py + hagpros$	
pythageros	
•••	
tare	
iii) y = a(1 - 2cos O)	
(i) j	
.)	
iv) y = 30	
Y = 3 a brease altraig y is I then 2a, the logtle of 3a would exted post to rength of y.	age
then 2a, the legther of 3a would	3
exted post to rength of y.	
с U	
Additional writing space	on back page.

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	oumpie i
5	
i) $V = \frac{\pi}{3}(2 - 3\sin \theta + \sin^3 \theta)$ 3	
53(
V = 111 (2 - 3sin O + sin O)	
2	
2	
A	
V-TI Tr	
$V = \pi \int \pi r^2$	
0	
5 3 /	
$\frac{\pi^2}{2}$	
1 2	
0	
ii $\frac{1}{2}$	
11 QL= 1 Π.	
2	

You may ask for an extra Writing Booklet if you need more space to answer question 10.

