## **Question 3**

## 2010 HSC Mathematics

Band 2/3 Sample 2

			Sample 2
Start here for Question Number: <b>3</b>			
al. 1272, 6-	. 4		
=(4,1)			
$\frac{rise}{run} = \frac{2}{-6}$	× -⅓		
III. LCAB is a co	mmon L	$MAN^{r} = \frac{1}{-2}$ $= -\frac{1}{2}$	
Misthe midpo	ofbe	2	
N is the midpoint			
ABC ,	s similiar to DAM	J	
$y - 2 = -\frac{1}{2}$	-x.)		
y = 2 = 2(x + 1)			
y=-==x+3			
2y = - x + 6			
2y + × -6			
$v.d = \int [x_2 - x_1)^2 + ly_2$	-4.) <sup>2</sup>	(12,6)	
$= \sqrt{(12-6)^2} + ($	6-8) <sup>2</sup>	(6,8)	
$= \sqrt{6}^{2} + (-2)^{2}$			
= \$36 +4			
= 540			
= 61. J4x10			
= 2510			

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Band 2/3 Sample 2

4
y, = -4
x, : -2
C = - 6
b : 1
a : 2



2010 HSC Mathematics

			Sample
si			
	- y=1	0 ×	
	y		
	1		
$\frac{b-a}{2} \left( f(a) \right)$	(ILV)	(3)	
$1. 2 \left[ f(\alpha) \right]$	+1(0)]	y= J3 lnx	
= 1.10 - 0	0 + 1.10		
= 0.55 (IX		×11   21	3
= 0.60		× 1 2 f(x) 0 0.69	1.10
1. [3 Inx	dre		
$\frac{1}{1} = \begin{bmatrix} 3 & 1 \\ 1 & 1 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$			
3			
. the approx	imation in par	+ (11) is less that	5