Question 3

2010 HSC Mathematics

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Sample 1 Start here for Question Number: 3 $mp = \begin{bmatrix} 2L_2 - 2L_1 & y_2 - y_1 \\ 2 & 2 \end{bmatrix}$ a il B(12,6) A(-2,-4) m (51, 1) C(6,8) ii $\frac{f_{15e}}{r_{UD}} = \frac{y_2 - y_1}{2L_2 - 2L_1}$ M == 72 LNAM = LLAB (Lommon) iii] 2×AN=AC (midpoint) 2×AM=AB (midpoint) SAS . similar , N(2,2) 2 M(5,1) $m = \frac{y_2 - y_1}{x_2 - x_1}$ iN 1 - 2 y-y1=m(x-x1) 5-2 $3y - 2 = -\frac{1}{3}x - \frac{2}{3}$ 3y - 6 = -3c - 22c + 3y - 4 = 0

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Sample_1 $d = \int [\pi_2 - \pi_1]^2 + (\pi_2 - \gamma_1)^2$ V =)36 + 4 6 32 = 540 = 2 110 AABC:44 units VI find pd from A to BL pd= <u>artby+c</u> <u>Jz+lz</u> y=y===3(2c-2c) H-68=-302-2 3y - 24= - 12 - 6 26 + 3y - 18 10, 11 32 : 32 Additional writing space on back page.

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