ARD OF STUDIES Question 4 1 x - 1/ 23 6)  $(x-1) \ge 3$  $-(x-1) \ge 3$ 2 2 4 - )( + ( Z 3 - X = Z 25-2 **≯** 4 56 -5 -4 -3 -2 -1 0 ( 2 3 9 ٦  $\cos \theta - \frac{2}{5} = 0$ 6) A 5  $\cos \theta = \frac{2}{5}$ 5 cos0 = 2 T C . -> cont next pg 02WB4

 $()) a^{2} = b^{2} + c^{2} - 2 bc (os A)$ a<sup>2</sup> - 5-2<sup>2</sup> + 8.9<sup>2</sup> - 2 × 5-2 × 8.9 × Cos 110  $q^2 = 27.04 + 79.21 - 92.56 \times Cosl(0)$ = 1061.250 a<sup>2</sup> = 137 · 9 07 a = 11.7MN=11-7 1D d) y= 2 x -> () Sub () in () ? & & & +6+ Ζ 4-6x-x2 -> (2) 1:2x= 6x-22  $= 4 \approx -\infty^2$ = x (4-x) -> cont next pg • 02WB4

ARD OF STUDIES 0 = x(4-x)= 4-20  $\chi = 4$ Sob in original y=2x y = 2(y)y = 8 Que coordinates of B are (4,8) (1)1 220 doc  $\int_{0}^{x} 6x - x^{2} dx$ \_ 4  $\left[\begin{array}{c} 2x^2\\ z\end{array}\right]^4$  $\int \frac{6x^2}{x^2} = \frac{x^3}{3}$  $[3x^{2} - \frac{x^{3}}{3}]_{0}^{4} - [x^{2}]_{0}^{4}$  $\left(3(4)^2 - \frac{(4)^3}{3}\right) - \left(3(6)^2 - \frac{(0)^3}{3}\right) - \left((4)^2\right) - ((0)^2)$  $\left[\left(26\frac{2}{3}\right)-\left(0\right)\right] - \left[16-0\right]$ 26 3 - 16  $= 10\frac{2}{3}uni+3^{2}$