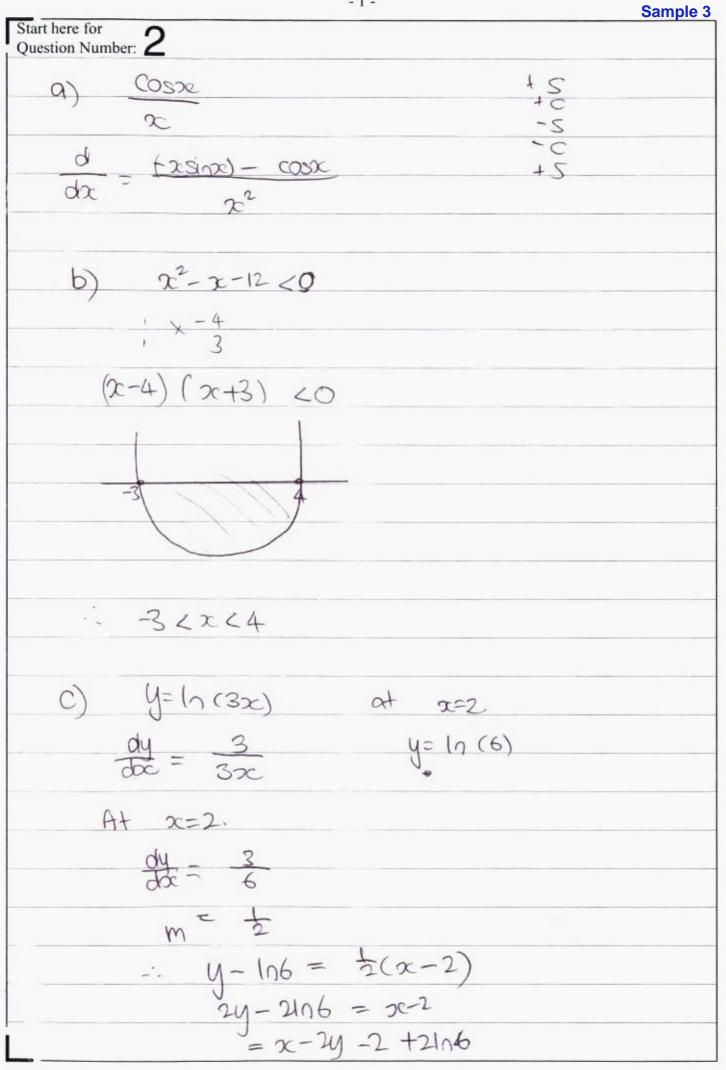
## **Question 2**

## 2010 HSC Mathematics



**Question 2** 

## 2010 HSC Mathematics

Band 5/6 Sample 3

Sample 3 1. 1 55x+1 dec (5x+1) 2 de  $= \frac{2(5x+1)^{\frac{3}{2}}}{3 \times 5} + C$  $= \frac{2(Sx+1)^{\frac{3}{2}}}{15} + C$  $\begin{array}{c} \text{ii.} \left( \begin{array}{c} 2e \\ +2c^{\alpha} \end{array} \right) de \end{array}$  $= \frac{1}{2} \ln (4 + nc^2) + C$  $\int_{0}^{6} (x+k) dx = 30.$ 0)  $\left[\frac{x^2}{2} + kx\right]^6$  $\left(\frac{6^2}{2} + 6k\right) - \left(0 + (0)k\right) = 30$ : 18+6K =30 6K= 12 1027. Additional writing space on back page.

Office Use Only - Do NOT write anything, or make any marks below this line