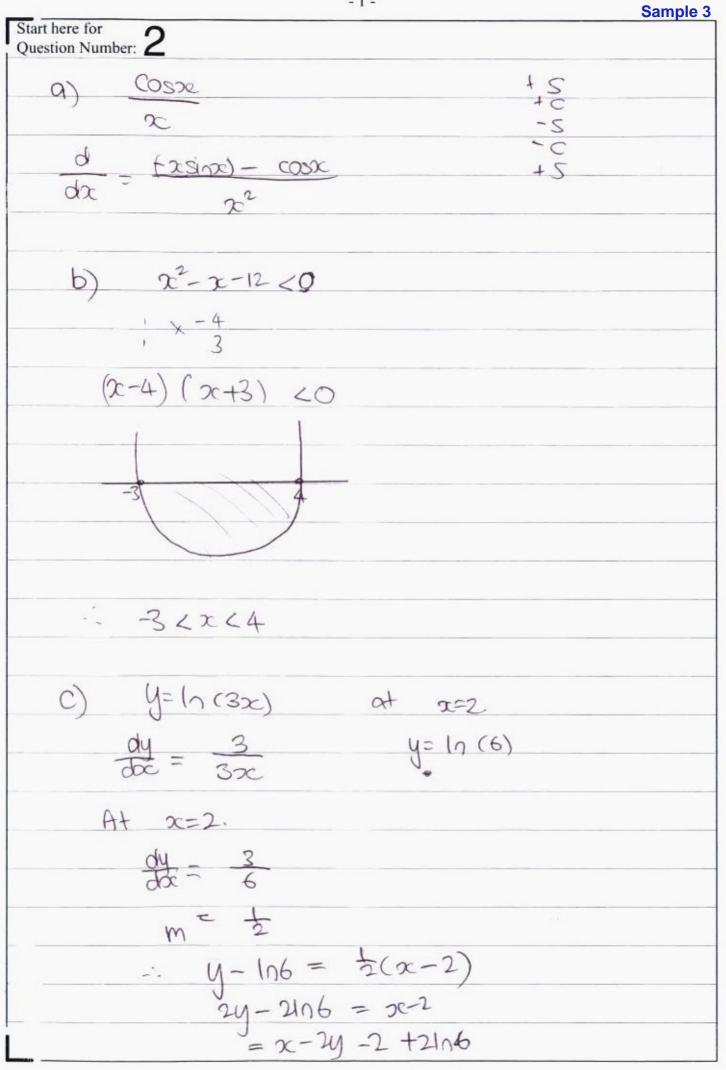
Question 2

2010 HSC Mathematics



Question 2

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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.

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