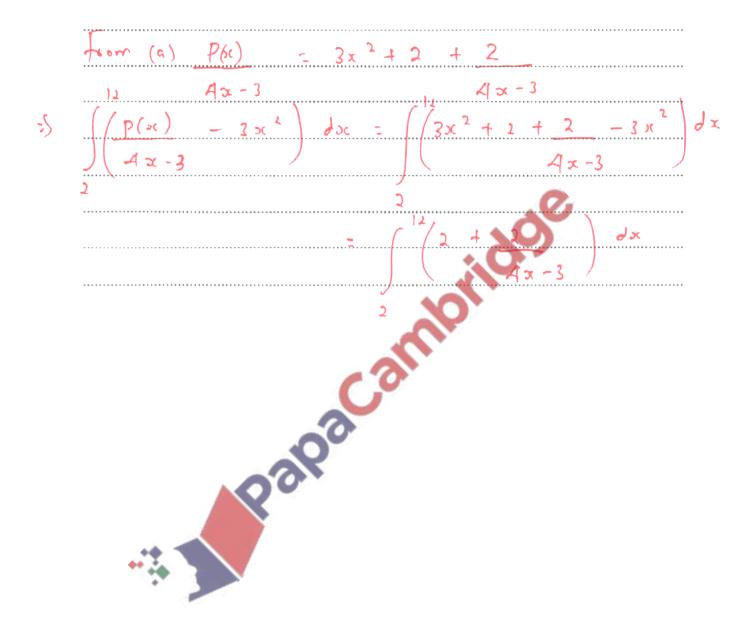
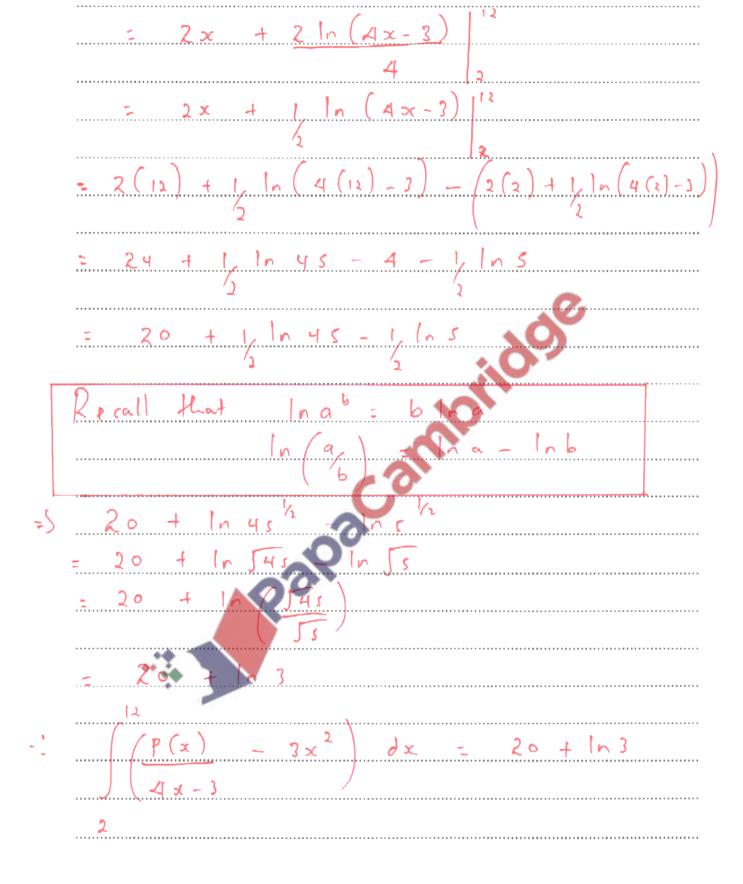
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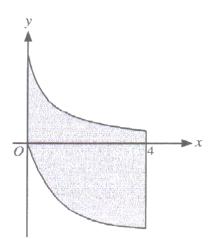
1. Nov/2022/Paper_9709_21/No.6(b)

(b) Hence find
$$\int_{2}^{12} \left(\frac{p(x)}{4x - 3} - 3x^2 \right) dx$$
, giving your answer in the form $a + \ln b$. [6]





2. Nov/2022/Paper_9709_22/No.6



The diagram shows the curves $y = \frac{6}{3x+2}$ and $y = 3e^{-x} - 3$ for values of x between 0 and 4. The shaded region is bounded by the two curves and the lines x = 0 and x = 4.

