

① (a) Find $\int \cos^2 \frac{1}{2}x \, dx$

(4 marks)

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(b) Evaluate $\int_a^{2a} \left(\frac{a^4}{x^3} + \frac{x^3}{a^2} \right) dx$

(4 marks)

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Find (a) $\int x \sin x \, dx$

(3 marks)

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(b) $\int \ln x \, dx$

(3 marks)

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