

Family name:

Sr. #

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Q1) Evaluate the following integrals

*i.*  $\int \ln x \, dx =$



*ii.*  $\int e^x \sinh x \, dx =$



*iii.*  $\int \frac{1}{x} \ln x \, dx =$



$$iv. \int \frac{dx}{3 + 2\sin x - \cos x} =$$

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$$vi. \int \frac{x + 1}{x^2 + 4x + 6} dx =$$

$$vi. \int \frac{x^3 + x}{x^3 - 1} dx =$$

