

Family name:

Sr. #

Q1) Find $\frac{d}{dx} \int_{2x}^{x^2} 10^t dt$

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Q2) Evaluate $\int_{-1}^2 x^{-2} dx$

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Q3) Evaluate the following indefinite integrals

i. $\int k dx =$
(*k is a constant*)

ii. $\int x^n dx =$
(*n ≠ -1*)

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

iv. $\int \frac{dx}{x^2 + 1} =$

v. $\int \frac{1}{\sqrt{1-x^2}} dx =$

vi. $\int \frac{dx}{1+\cos x} =$