

Family name:

Sr. #

Q1) Evaluate the following:

i. $\int \cot x \, dx$

ii. $\int \frac{\cos x}{1+\sin^2 x} \, dx$

iii. $\int x^3 \sqrt{x^2 + 1} \, dx$

iv. $\int_1^2 x \sqrt{x-1} \, dx$

v. $\int_{-1}^1 \frac{\tan x + x^2}{1+x^2} \, dx$
