

Worksheet: Integrals (Integration — The Reverse of Differentiation)

ISC · Class 12 · Mathematics · 3 questions · 13 marks

Name: _____	Date: _____	Score: _____ / 13
-------------	-------------	-------------------

Q1. Evaluate: ~~$\int \frac{1}{x} dx$~~ $\int \frac{1}{x^2} dx$. [3 marks]

Q2. Evaluate: ~~$\int \frac{1}{\sin x} dx$~~ $\int \frac{\sin x}{(\sin x + \cos x)} dx$. [4 marks]

Q3. Evaluate: ~~$\int \frac{1}{x^2 + 1} dx$~~ $\int \frac{x^2 + 1}{(x^2 + 2)(x^2 + 3)} dx$. [6 marks]