



Quiz-4 (Spring-2026)

Student ID:

Student Name:

Course Code: MAT 101

Course Title: Mathematics I

Section: 23-A

Date: 19/04/2026

Full Marks: **15 Marks**Time: **30 min**

Answer all the following questions

Question 1: Simplify the following expressions into partial fractions

i) $\frac{2x+12}{(x-2)(x+2)}$ [4 marks]

ii) $\frac{3x^2+7}{(x-1)(x^2+4)}$ [6 marks]

Question 2: Evaluate the following integrations

i) $\int \frac{x^4+3\sqrt{x}-2}{x^3} dx$ [2 marks]

ii) $\int \frac{1+\cos x}{x+\sin x} dx$ [3 marks]

Start Writing from here
