KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 102 - QUIZ 4

Name:
Student ID #:

Question 1. Write the following fraction as sum of partial fractions without calculating the coefficients:

$$\frac{x^2 + 2x + 4}{(x^3 - 1)^2(x^2 - x + 1)(x^2 - 1)^2}$$

Question 2. Evaluate the integral:

$$\int \frac{1}{\sin(x) - \cos(x)}\mathrm{d}x.$$

Your Solution.