King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
Math 102 Sec# 1, Quiz # 4 (sections 6.3-7.2), Semester 183

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Name: Student ID#: SR#

Q1) Evaluate the integral

$$\int \frac{\sqrt{x^2 - 25}}{x^3}\, dx$$

Q2) Express the function as a sum of partial fractions. **<u>Do not evaluate the coefficients.</u>**

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

Q3) Evaluate the integral or show that it diverges.

$$\int_2^{10} \frac{dx}{\sqrt[3]{(x-2)^2}}$$