

King Fahd University of Petroleum & Minerals
Department of Mathematical Sciences
Math 102-10, Quiz # 1, Semester 152

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Name:

Student ID#:

SR:

Q1) Evaluate the Riemann sum for $f(x) = \frac{x}{x-1}$, $2 \leq x \leq 8$ with three subintervals, taking the sample points to be the midpoints.



Q2) Evaluate the integral by interpreting it in terms of areas.

$$\int_0^5 (x - \sqrt{25 - x^2}) dx$$

Q3) Evaluate $F(1) + F'(1)$ if

$$F(x) = \int_x^{x^2} \frac{\sin 2t}{t^2} dt$$