

King Fahd University of Petroleum and Minerals
Department of Mathematics & Statistics
Math102.27
Semester 112
Quiz (1)

Name:

ID #:

Serial #:

1. Evaluate:

$$\int \left(\frac{2-x}{x} \right)^2 dx$$

2. Find R_n for

$$f(x) = 2 - \frac{1}{3}x \quad 1 \leq x \leq 4$$

3. Find $G'(1) + G''(1)$ if

$$F(x) = \int_1^x f(t) dt \quad \text{and} \quad G(u) = \int_1^u e^t F(t) dt \quad \text{and} \quad f(1) = 0$$

4. Evaluate $\int_{-2}^5 f(x) dx$ if

$$f(x) = \begin{cases} 0 & \text{if } x \leq -1 \\ 1+x & \text{if } -1 < x < 3 \\ 4 & \text{if } x \geq 3 \end{cases}$$

Good luck
Khaled Al-Anezy