King Fahd University of Petroleum & Minerals
Department of Mathematical Sciences
Math 102-7 (153), Quiz # 1 (5.1, 5.2, 5.3 & 5.4)
Family name: Sr. #

Q1) If $f(x) = x^2;\ -1 \le x \le 0$, evaluate the Riemann sum with n subintervals of equal widths, taking the sample points to be the right endpoint of each subinterval.

Final Ans.

Q2) Express $\lim_{n\to\infty} \sum_{i=1}^{n} \left[2 + (1 + \frac{2i}{n})^3 \right] \frac{3}{n}$ as a definite integral (**Don NOT evaluate**).

Final Ans.

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Math 102-9 (153), Quiz # 1 (5.1, 5.2, 5.3 & 5.4)
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Q1) Approximate $\int_1^4 \frac{dx}{x}$ using the Riemann Sum , with $n = 3$ subintervals, taking the sample points to be the Mid endpoint of each subinterval.

Final Ans.

Q2) If f is a continuous function such that $\int_2^{2x} e^x f(x)dx = x^2e^x - 2$. Evaluate $f(4)$

Final Ans.