Family name: Sr. #

Q1) Approximate $\int_{-1}^{3} x^2 \, dx$ taking the sample point to be the Right end point with 4 approximating rectangles

Q2) Evaluate the integral $\int_{1}^{-2} (1+x) \, dx$.

Q3) Express the limit as a definite integral $\int_{a}^{b} f(x) dx$

i. $\lim_{n \to \infty} \sum_{i=1}^{n} \frac{i^4}{n^5}$

ii. $\lim_{n \to \infty} \sum_{i=1}^{n} \frac{1}{n}$