King **F**ahd **U**niversity for **P**etroleum and **M**inerals
Department of Mathematics & Statistics
Term 152 Math 102 (6) Quiz#1 (5.1, 5.2, 5.2 & 5.4)
Family Name: S.r#

Q1. Evaluate the Riemann sum for $f(x) = x^2$ over $[0, 2]$, taking the sample points to be the Midpoints with n approximating rectangles of equal widths.

Q2. Evaluate $\int \left(2^x + \frac{1}{x} \right) dx$

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Term 152 Math 102 (28) Quiz#1 (5.1, 5.2, 5.2 & 5.4)
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Q1. Express the limit as a definite integral $\lim_{n\to\infty}\sum_{i=1}^{n}\frac{i}{n^2+i^2}$

Q2. Evaluate $\int_0^{\pi}|\cos x|\,dx$