Math 102 - Quiz#1

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Name:

Serial No.:

1. Find an estimate of the area under the graph of $y = \frac{1}{x}$ from $x = 2$ to $x = 6$ using n=4 with the right endpoints rule.

2. If $f(x) = \begin{cases} |x-1| & if \quad 0 \le x \le 2 \\ \sqrt{9-(x-5)^2} & if \quad 2 < x \le 8 \end{cases}$, find the value of $\int_0^8 f(x)\,dx$.

3. Use the definition of the integral to evaluate the integral

$$\int_{-2}^{0}(x^2 - x)\,dx$$