Math 131 - Quiz 11

April 24, 2023

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (6 points) Evaluate each indefinite integral.

   (a) $\int (x^2 + x + 1)\, dx$

   (b) $\int (3\sin x - 5\cos x)\, dx$

   (c) $\int \left(\dfrac{3}{x} - e^x \right) dx$

2. (4 points) Let $f(x) = \dfrac{1}{x}$. Use 4 subintervals of equal length and subinterval right endpoints to compute the corresponding Riemann sum for f over the interval $[1, 3]$.