
MATH 107 Quiz 1

Name:_____

PIN in any 4 digits:_____

Score:_____

Instructions: You must show supporting work to receive full and partial credits. No text book, notes, formula sheets allowed.

- 1(6pts)** (a, 4pts) Use $n = 2$ to find the Left Point Sum L_2 , Right Point Sum R_2 , Midpoint Sum M_2 , Trapezoid Rule $T_2 = (L_2 + R_2)/2$, and the Simpson Rule $S_2 = (T_2 + 2M_2)/3$ for the integral $\int_0^1 \sin(x^2)dx$. (**No Credits if calculator programs are used.**)

- (b, 2pts) Use a calculator program to find the Simpson Rule approximation with $n = 10$.

- 2(4pts)** Find the **exact** value of the definite integral

$$\int_1^2 x^2 - x^{-1} dx,$$

using the Fundamental Theorem of Calculus.

(... *The End*)