

Name:

Section: 5 6 9 10

1. Use Simpson's Rule with $n = 4$ to approximate the integral $\int_1^5 e^x dx$.

2. Suppose f is a continuous functions defined on $[1, 3]$, and suppose

$$|f''(x)| \leq 17 \quad \text{for } 1 \leq x \leq 3.$$

How large should n be for T_n to be within 10^{-5} of $\int_1^3 f(x)dx$.