No notes, books, cellular devices or graphing calculators are to be used.

1. (6.2 #13) Evaluate

\[
\int_0^1 \frac{e^x + e^{2x} - 7}{e^{3x}} \, dx.
\]

2. (6.2 #21) Combine

\[
\int_{-1}^0 (x^3 + x^2) \, dx + \int_0^1 (x^3 + x^2) \, dx
\]

into one integral and then evaluate the integral.
3. (6.3 #31) Use a Riemann sum to approximate the area under the graph of \( f(x) = x^2 \) on the interval \( 1 \leq x \leq 3 \) with \( n = 4 \) midpoints of subintervals.