

Project #6
ENGR 2450

Title: Numerical Integration

1. Use calculus to analytically determine the integral of the function $f(x) = \cos(x) \cdot e^{-2x}$ for $0 \leq x \leq 2$.
2. Use the algorithms on pages 282 & 283 to numerically determine the integral of $f(x)$ for $0 \leq x \leq 2$. Use 6, 12, 18 and 24 panels.
3. Compare the analytic integral with the numerical integrals.

This is due on 18 March 2011.