Math 122 Sec S08N03/04-Quiz 5 Name:
Mar 102008
(1)[5 points] Approximate

$$
\int_{0}^{2} e^{-x^{2}} d x
$$

using $T_{4}$, the trapezoid rule on four subintervals.
(2)[5 points] Give a bound on the error in your approximation in (a).

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(3)[5 points] How large must $n$ be for the approximation in (a) to be accurate to within 0.001 ?

