

Quiz 6 - Topics

1. Compute the midpoint and trapezoidal approximations by hand using a graph or formula; know when these are over/under estimates (like 5.9 # 1, 2, 3).
2. Use the error formulas to estimate the error in using the trapezoidal or midpoint approximations (like 5.9 # 17bc, 18bc).
3. State the definition of $\int_a^\infty f(x) dx$ and what it means for the integral to converge.
4. Be able to determine whether or not an improper integral (either type) converges, and evaluate if possible. (like 5.10 # 5, 7, 9, 10, 17, 23, 25)
5. Be able to find the area bounded by two curves (like 6.1 # 1, 4, 5, 11)