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| Group Quiz 7Dusty Wilson Math 148 – Fall 2011 No work = no credit | **Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Approximate the integral  by using by using (a.) right-hand endpoints, (b.) the trapezoidal rule, and (c.) Simpson’s rule. Use four subintervals (*n* = 4).  
  
Give your results to four decimal places. The exact answer (to four decimal places) is 1.0611

In an effort to make the distribution of income more nearly equal, the government of a country passes a tax law that changes the Lorenz curve to . Before the tax change the Gini coefficient was 0.42. Determine whether the distribution of income is more or less equitable after the tax law is passed. Interpret the result.

If the demand function for a product is  and the supply function is . Find and interpret the supplier’s (aka producer’s) surplus.

