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| Group Quiz 1Dusty Wilson Math 152No work = no credit | **Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

 Use the definition of the definite integral to evaluate exactly.

 Consider . Suppose you intend to approximate this definite integral using Simpson’s Rule. You need your results to have error . Using error bounding methods from the text to find *n* and then calculate .

 I looked up high school dropout rates in King County. If *t* is given in school years ending since 2000, we can model the dropout rate (in students per year) over six years with . Use Riemann sums to approximate the total number of dropouts between the beginning of 2006 and the end of 2010. (You pick the method and *n*.) Compare this to the actual total of 4749 dropouts and explain the difference.