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| Group Quiz 5Dusty Wilson Math 153 – Spring 2012 No work = no credit | **Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Find a Taylor Series for  about . Then use this to find the minimum number of terms necessary to guarantee that the approximation will be within 0.01 of . Find the approximation.

Find the interval of convergence and radius of convergence of 

Use the techniques developed in this course to approximate  to within  using the smallest number of terms necessary.