Main Exercises Week 11

MATH 131: Calculus II, Section 2   Your Name (Print): _____

Follow the general guidelines for the Main Exercises assignments (the salmon colored handout). Be sure to **staple** together your pages if you have more than one, and include your **name** at the top. Neatness is appreciated, makes a good first impression, and can earn you a bonus point!!!

Due: at the beginning of class on Monday, November 5, 2018

Remember: Your write-up should be **your own**. You may discuss these problems with others, but **you should be alone when you write them up**, using only outlines of any group or Intern discussions. EXPLAIN and SHOW YOUR WORK!!! Final answers will not receive full credit without supportive explanations. You may use your own paper on which to write these up. **If you use u-substitution, SHOW IT, no matter how small; do not just do it in your head.**

1. Evaluate $\displaystyle\int_{2}^{2\sqrt{3}} \frac{1}{x^4\sqrt{x^2-3}}dx$. Be sure to show detailed work and not skip steps. Try to get your answer

   into a single fraction; it will have roots in it!

2. Evaluate $\displaystyle\int \frac{-2x^3-20x^2+94x+127}{(x+2)^2(x-3)^2}dx$. Be sure to show detailed work and not skip steps.