

Problem Set 12

Due: Tuesday 12/8/20 by 3:00 pm EST

Please read and follow the instructions below.

- Textbook problems are denoted by *[Chapter].[Section].[Problem]* and are taken from *James Stewart, Lothar Redlin, Saleem Watson, Precalculus: Mathematics for Calculus, 7th edition.*
- Write and organize your solutions as clearly as possible. Marks may be deducted at the discretion of the grader for illegibility.
- Full credit will only be awarded for solutions that show all work. Simply stating the answer without justification (when required) does not suffice.
- Solutions to the problems marked “Problems to be graded” are to be submitted in a single document either a pdf or high-resolution image file via CourseWorks. Notice that this does not include word documents! There are various document scanning phone apps available that you can use to scan and export your solutions into a pdf. Please check that your scan is readable before submitting your solutions as unreadable scans/problems will not be graded and marked off.
- For additional practice, I have included some additional problems. If you require further practice, then I suggest doing problems from the book that are similar to the problems I have assigned below.
- By signing your name on your solutions you pledge to the Columbia’s Honor Code. Working with fellow classmates and seeking help from TAs, if necessary, is highly encouraged, but collaboration and help should be acknowledged appropriately. The copying of answers from students or outside sources is considered cheating.
- Late homework will not be accepted.

Problems to be graded:

6.1.9, 6.1.12 (Don’t round your answers. Express them in terms of π .), 6.1.18, 6.1.25

6.2.6, 6.2.8, 6.2.10, 6.2.18, 6.2.23, 6.2.24

6.3.30, 6.3.32, 6.3.34, 6.3.48, 6.3.53

6.4.8, 6.4.30, 6.4.32, 6.4.34, 6.4.36, 6.4.38

7.1.16, 7.1.24, 7.1.32, 7.1.36, 7.1.38, 7.1.58, 7.1.66, 7.1.81

7.2.12, 7.2.14, 7.2.20, 7.2.36, 7.2.38, 7.2.50, 7.2.58

7.3.6, 7.3.14, 7.3.24, 7.3.32, 7.3.60, 7.3.63, 7.3.78, 7.3.88

Problems for additional practice:

I suggest doing problems that are in the same "subsections" of the exercises in the book where you find assigned problems. Typically, each even numbered problem has a corresponding odd numbered problem.