

A quick review of Calc One, SH, 1/4/20

These optional review exercises cover Calc One basics. They will help you pass the Calc Two diagnostic test and start Ch 5. Work at least 20% of them, or until mastery. The first are perhaps most important.

Ch. 4 Practice, page 292 : Problems 115-138; 139-142; 43-58.

Ch. 3 Practice, page 212 : Problems 1-64.

Ch 2.6 : Problems 3 - 22.

I have not prepared a list of Pre-calculus exercises, but you should

1) Be able to graph fairly quickly : $y = \sqrt{x}$, $y = \ln x$, $y = e^x$, $y = |x|$, $y = \sin x$, $y = \tan^{-1} x$, etc,

2) Know the domain and range of each function above. Memorization is not required if you can deduce the answers fairly quickly.

3) Know common function values such as $\sin \pi/3$, $\tan^{-1} 1$, $\cos 3\pi/4$, e^0 , $\ln(e)$, etc.

4) Be able to solve a system of equations, such as $x + y = 3$, $3x - y = 1$ (answer $x = 1$, $y = 2$).

For a different kind of review, you can find some of my old Calc One exams at <http://faculty.fiu.edu/~hudsons/c1/c1exams/index.htm>. You can also navigate to that page from my home page, to a 2014 Calc I syllabus, to the 2014 exam page. Not all the problems on those exams are needed in Calc Two, and some of the vocabulary/etc from the old textbook may be unfamiliar. Practice the True-False problems, which are common on my Calc One and Two exams.

If you want to get ahead, maybe even before the term starts, you might read over early Ch.5 and try some of your first Calc Two homework. These exercises should also be posted on your HW page soon, if not there already.

5.1 : 3, 7, 9, 13, 15

5.2 : 3, 7, 13-21odd, 25, 31, 32, 35, 37, 43, 47

5.3 : 1, 7, 9, 11, 15, 17, 19, 35, 43, 55, 71, 75