

Math 13100 – Homework 1

due 2016-01-12

Please read sections 0.1 through 0.5 in the textbook.

Please also do the following problems. Make sure to show all details of your work.

Also, please give at least some thought to each of the extra credit problems – they should be fun and stimulating intellectual exercise, regardless of whether you want to submit solutions for them.

From 2016-01-04

- From Problem Set 0.1: problems 8, 9, 10, 15, 16, 20, 26, 71 (and for extra credit, 45, 46, 50)

From 2016-01-06

- From Problem Set 0.2: problems 1, 2, 6, 10, 12, 20, 21, 51, 52, 53
- From Problem Set 0.3: problems 2, 8, 14, 18
- For extra credit: Can you make sense of these unusual intervals? Describe which real numbers are in each.

$[1, -1]$ $[2, 2]$ $(3, 3]$ $(4, 4)$

Write your thoughts in sentences, show some calculations, or draw a picture on the real number line.

From 2016-01-08

- Problems regarding this day's lecture will go on the next homework.