

## HOMWORK ASSIGNMENT NO. 1

DATE: ASSIGNED JANUARY 7, 2019 - DUE JANUARY 16, 2019 (11:59PM)

Your assignment should include complete sentences and explanations and not just a few equations or numbers. It must be written in  $\text{\LaTeX}$  (as must all of your assignments). Please cite any sources you borrowed material from (e.g. pictures, formulae, ideas on how to solve the problem, online programs, etc.). I will put a latex template on the website and I will make available the source  $\text{\LaTeX}$  code for this assignment.

- (1) Complete the academic integrity tutorial in the Moodle.
- (2) In class we discussed the following question:

What is the maximum number of regions created  
in a plane by drawing  $n$  intersecting lines?

Write a brief summary of the discussion and a solution to the problem (in  $\text{\LaTeX}$ ) and hand it in through the course moodle. You should include at least one [image](#) (that you drew yourself), one [table](#), and at least one [list](#) within your text and a [bibliography](#) (even if it has just the course webpage as the only reference). There should also be a short (one to two sentence maximum) of why you know your formula is correct and I would like you to highlight that explanation in **RED** (note that an appeal to authority does not count as an explanation). Read the criteria that is laid out on the web page for this class about the expectations for your homework. Make sure that it follows as many of them as possible.