Spring 2021 Math 20D Lecture B Homework #2 Due Sunday, 11:59pm, April 25th

Submit this homework through Gradescope, check the course website on how to submit homework.

Topics covered: section 4.4

- 1. Find a particular solution to the differential equation y'' + 2y' y = 10 + x.
- 2. Find a particular solution to the differential equation $2z'' + z = 9e^{2t}$.
- 3. Find a particular solution to the differential equation $4y'' + 11y' 3y = -2xe^{-3x}$.
- 4. Find a particular solution to the differential equation $y'' + 4y = 8\sin(2t)$.

Note: Due to the number of students in this class, a subset of the questions will be used to grade this assignment. This subset will be determined after all of the assignments have been submitted.