Spring 2022 – MAP4401
Take-home exam III

This take home test is due **Thursday April 14**. (I will not accept late returns). Clarity of exposition is expected and no credits will be given for sloppy work. I trust that your work will be individual and you are free to consult notes and books. You have to turn in the following 10 problems.

The problems are based on Notes 9 and 10.

Do the following problems from NOTE 9 (Sturm-Liouville Problems): 2, 4, 6, 8 and 10

Read NOTE 10 (Non homogeneous BVPs and higher dimension) and do the following problems: 2, 4, 6, 10, and 14. Problems 2 and 4 and 6 are based on section 1 and 2; problem 10 on section 3; and problem 14 on section 4.