

# Review Problems

Listed below are problems to practice when reviewing for our final. The list is rather large and you should pick and choose a little bit (unless you are horribly masochistic, I wouldn't do all of the problems). I have attempted to pick problems that fit well with this class, but a few probably snuck in that aren't appropriate. If you find any that seem like they are too off the beaten path, let me know.

Scott Pauls

- *First order differential equations* p669 Exercises #1, 2,5-11,15,17,20,21
- *Second order differential equations* p1185 Exercises #1-4,11-13,17,18,19
- *Complex numbers* pA55 Exercise # 1-46
- *Sequences and Series* p810 Exercises # 1-6,16,27,28,30,38-41 (find radius only),45-50,53,54,55ac,56ac (for 54-56, you may want to first try a simpler problem such as approximating the value using the third Taylor polynomial and approximating the error using Taylor's remainder theorem before doing the more general case described in the problems)
- *Introduction to Vectors* p867 Exercises # 1-34
- *Vector functions* p902 Exercises # 1,2,3,5,8,9,11a,17,18,19
- *Partial Derivatives* p995 Exercises # 1-27,29-46,48-54,57-63