MA 431 – Comments for Homework 2 Spring 2015

Guidelines for rewrites.

- Every student is permitted *one rewrite per homework assignment.* All problems to be rewritten must be submitted at the same time, *together with the original submission.*
- Rewrites are due *two class days after return of the original homework assignment.*
- In order to submit a rewritten problem, you must submit a new solution *to the entire problem*, not just the parts you wish to rewrite.
- Instructor comments on your original submission are not intended to correct every mistake. Some errors in your original solutions may not be indicated by instructor comments. It is your job to revisit (or scrap) your *entire* original solution to ensure that your rewritten solution is correct.
- If some comments on your original solution are unclear, just ask the instructor for clarification!

Comments on Homework 2.

- Do not (repeat: *DO NOT!*) attempt to use results that we have not stated or proved in class. I can tell the difference between a solution that contains a result from class which has been merely been used incorrectly or misinterpreted (this is a natural part of the learning process), and the more egregious mistake of using a result that has not been discussed in class or in a prior homework problem. When you use a result from outside the scope of our class, it indicates to me that you have been searching for solutions on the internet or some other source. This is cheating. Don't do it.
- I realize that many of you work together on homework problems. This is acceptable (and often encouraged, provided you have previously made a legitimate effort to solve each problem on your own.). However, you are not permitted to *write up* your solutions together. From this point onward, *suspiciously similar write-ups will receive 0 points.*
- In order to show that a *subset* W of a vector space V is a *subspace* of V, one of the necessary steps is to show that $\vec{0} \in W$, where $\vec{0}$ is the *zero vector in* V. For example, the zero vector in the space $\mathcal{F}(S, F)$ is the function, maybe you'd like to call it $\vec{0}$, defined by $\vec{0}(s) = 0$ for all $s \in S$. So, if you're trying to show that some subset W is a subspace of $\mathcal{F}(S, F)$, we need to show that W contains this function $\vec{0}$, and that for all $f, g \in W$ and all $c \in F$, $f + g \in W$ and $cf \in W$.