

All problems are to be written up clearly and thoroughly, using complete sentences. This assignment is due in discussion at 2pm on Tuesday, March 3rd.

For all T/F problems on the homework, provide a brief justification for your answer. That may be citing an appropriate theorem or providing a counterexample.

1. From the book:

Section 6.11 problems 9, 13, 16

Section 7.1 problems 1, 6, 7, 8 [There is an error in problem 8. It should be that given any Jordan block $J_m(\lambda)$ in the Jordan canonical form for T , show that $J_m(c\lambda)$ is a Jordan block in the Jordan canonical form for cT .]