

Assignment 2.

Given Oct 6 2000, due Oct 13 2000.

- (1) Do exercises 13-17, 29, 31, 32, 35, 36, 37 from Chap 4. of the text book.
- (2) Classify all the subspaces of $\mathcal{P}_2(\mathbb{R})$
- (3) We saw in class that $\mathcal{L}(E + F)$ is in general different from $\mathcal{L}(E) + \mathcal{L}(F)$, can you give a nontrivial example where the two are the same? How about sufficient and/or necessary conditions?