

1. 7.16 (Brandon)
2. 7.17 (Aven)
3. 7.20 (Nathan)
4. Suppose $S \in B(X)$ is invertible and $T \in B(X)$ is compact, where X is a Hilbert space. Show that the operator

$$S + T$$

satisfies the Fredholm alternative. (Max)

5. 7.27 (Jeff)
6. 7.29 (Jody)