

## Homework 7

Due March 5th on paper at the beginning of class. Please let me know if you have a question or find a mistake.

1. Exercise from page 3 of <https://www.math.purdue.edu/~kdatchev/546/frechet.pdf>.
2. Exercises 2.7 and 2.8 from *Borthwick*.
3. Prove that a weakly convergent sequence in Hilbert space is bounded.