Math 445 – David Dumas – Spring 2018

Homework 8

Due Monday, March 19 in class (1:00pm)

Follow the same instructions given on Homework 1.

- (—) From the textbook: 24.1, 24.3, 24.8, 25.2, 26.3, 26.6
- (P1) Let U be an open subset of \mathbb{R}^n in the standard topology. Show that U is connected if and only if U is path connected.
- (P2) Let X denote the set [0,1] with the lower limit topology (that is, consider it a subspace of \mathbb{R}_{ℓ}). Is X compact?