

Math 341 Reading Questions for Friday, Week 1

Let $X = \{a, b, c, d\}$ with topology $\tau = \{\emptyset, X, \{a, b\}, \{a, b, d\}, \{b\}, \{b, d\}, \{b, c, d\}\}$.

- (a) Is $\{b\}$ closed?
- (b) Is X Hausdorff?
- (c) Is X connected?