

For this section, we are concerned primarily with seeing a bunch of different notions of connectedness and seeing if we can provide any proofs for Pi-Base. For homework, search the spreadsheet I emailed you for any of these types of connectedness and try to find a few that look reasonable to prove. Do not hesitate to look online for help. The goal is for us to consolidate knowledge, not reinvent knowledge that is already out there.

- Section 23
  - Important words: connected, separation
  - Examples 1 – 5
  - You may find the various Theorems and Lemmas useful to have in front of you while you are trying to prove something.
- Section 24
  - Important words: path connected
  - Examples 3 – 7
- Section 25
  - Important words: locally connected, locally path connected
  - The Theorems that follow these definitions are again useful when attempting a proof.
- Other types of connectedness (look them up on <http://pi-base.herokuapp.com/>)
  - Arc Connected
  - Locally Arc Connected
  - Totally Path Disconnected
  - Extremally Disconnected
  - Biconnected
  - Hyperconnected
  - Ultraconnected