MCS-236 Homework 8

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In this exercise we will show that no hypothesis of CZ Exercise 1.17(a) can be dropped or relaxed if the conclusion is to hold.

- 1. Prove that there exists a graph G (not necessarily connected) containing longest paths P and Q that share no common vertex.
- 2. Prove that there exists a connected graph G containing paths P and Q such that P and Q are second longest in G and yet P and Q share no common vertex.