

Quiz #1 possible questions

1. Given a small graph,
 - a. find its transitive orientation;
 - b. find a chordless cycle of length >3 ;
 - c. draw its complement;
 - d. draw its induced subgraph on a given subset of vertices;
 - e. find an asteroidal triple in it;
2. Given a small graph,
 - a. show it is interval by providing an interval model;
 - b. or, show that it is not an interval graph by providing an obstacle for that (a large chordless cycle, an asteroidal triple, or its complement is not transitively orientable).
3. Given an interval graph with its umbrella-free ordering, find
 - a. its largest clique;
 - b. its proper coloring;
 - c. its largest independent set.

Date: Wednesday, February 10, 2016 in class.