- 1. Using any method you like, compute the following subgraphs for the weighted graph below. Each subproblem is worth 3 points. Each incorrect edge costs you 1 point, but you cannot get a negative score for any subproblem.
  - (a) a depth-first search tree, starting at the top vertex;
  - (b) a breadth-first search tree, starting at the top vertex;
  - (c) a shortest path tree, starting at the top vertex;
  - (d) the maximum spanning tree.

