Example of Dijkstra's algorithm
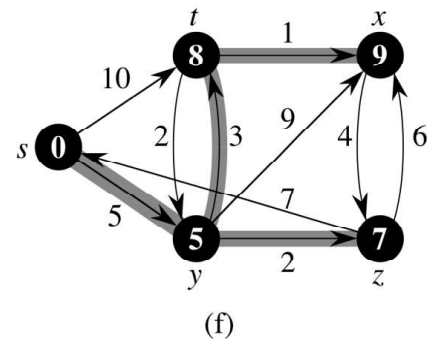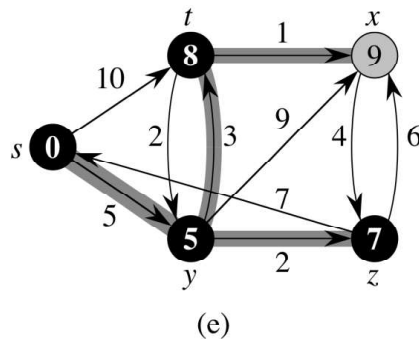
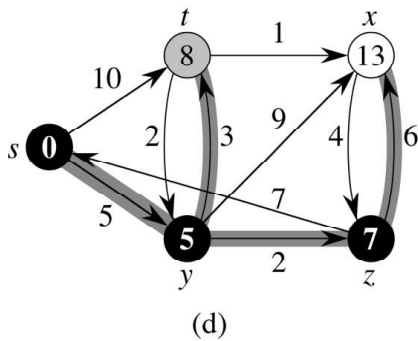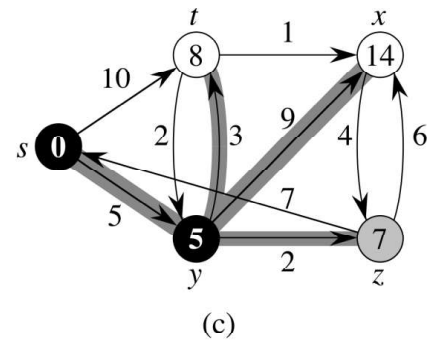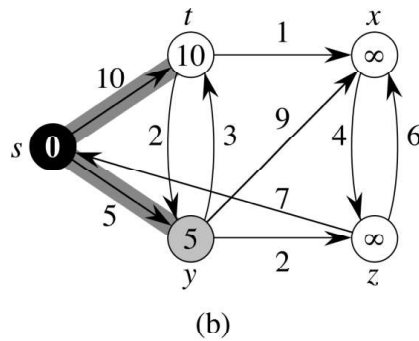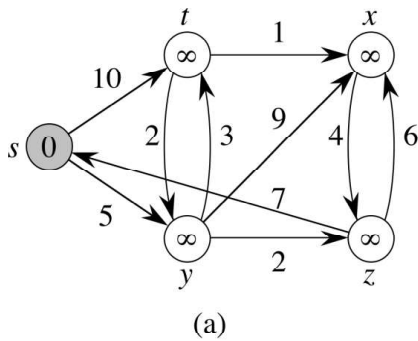

Source is s. Shortest path estimates are in the nodes. The black nodes can be viewed as labeled permanent in that this is the correct shortest path distance to that node. Shaded vertex is next chosen from the priority queue.