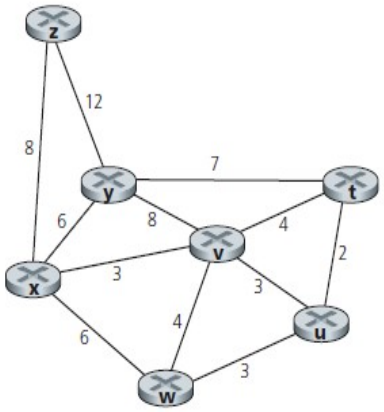
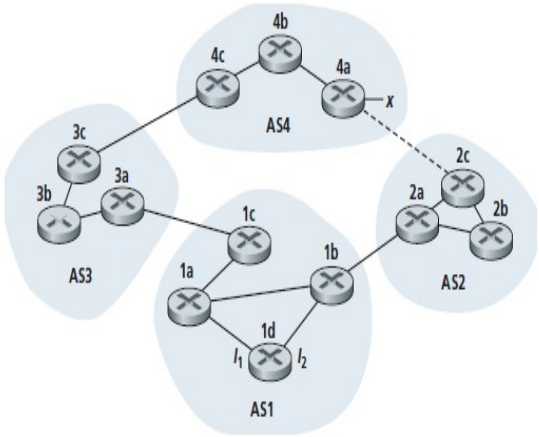
Computer Networks Fall 2018
Quiz – 3 Date: 26-11-2018
Roll no: _____

Q1: Consider the following network. With the indicated link costs, use Link State routing algorithm to compute the shortest path from *t* to all network nodes. Clearly show the table entries for computing the next node in the shortest path tree. Draw the final shortest path tree with all the costs.



Q2: Consider the network given below. Consider the network shown below. Suppose AS3 and AS2 are running OSPF for their intra-AS routing protocol. Suppose AS1 and AS4 are running RIP for their intra-AS routing protocol. Suppose eBGP and iBGP are used for the inter-AS routing protocol. Initially suppose there is *no* physical link between AS2 and AS4.



1. Router 3c learns about prefix *x* from which routing protocol: OSPF, RIP, eBGP, or iBGP?
   Answer: _____

   Reason:

2. Router 3a learns about *x* from which routing protocol?
   Answer: _____
   Reason:

3. Router 1c learns about *x* from which routing protocol?
   Answer: _____

   Reason:

4. Router 1d learns about *x* from which routing protocol?
   Answer: _____

   Reason: