CSE373 Winter 2014
Example Questions on Minimum Spanning Trees
1. (a) Draw a undirected graph with exactly 4 nodes that has exactly 0 minimum spanning trees.
(b) Draw a undirected graph with exactly 4 nodes that has exactly 1 minimum spanning tree.
(c) Draw a undirected graph with exactly 4 nodes that has exactly 3 minimum spanning trees.
(d) Draw a undirected graph with exactly 4 nodes that has exactly 4 minimum spanning trees.
(e) Draw a undirected graph with exactly 4 nodes that has exactly 8 minimum spanning trees.
2. Here is a picture of an undirected graph with 4 nodes that contains every non-self edge:

Here is a picture of just one possible spanning tree for this graph:

Draw fifteen more spanning trees for this same graph.