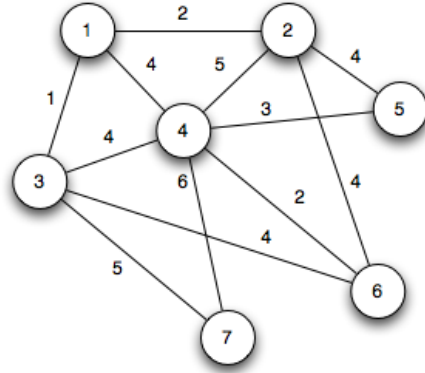
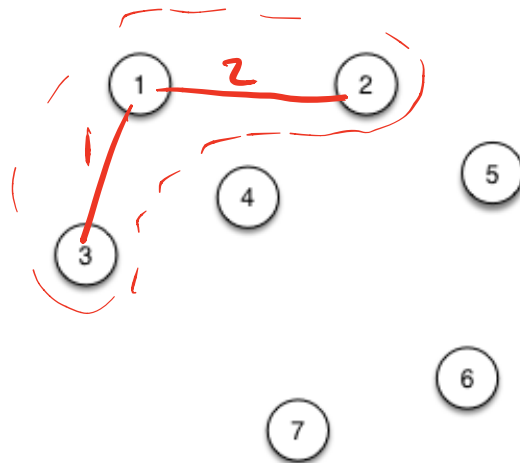
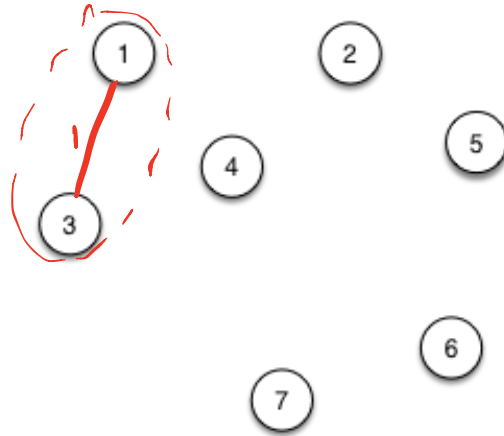
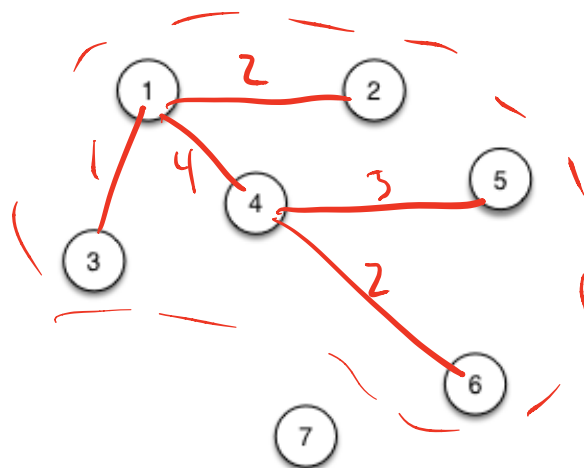
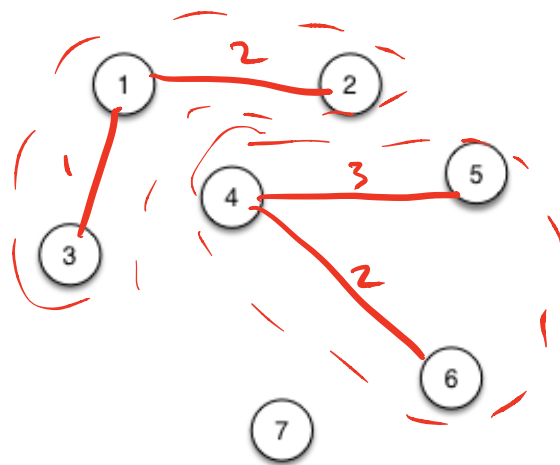
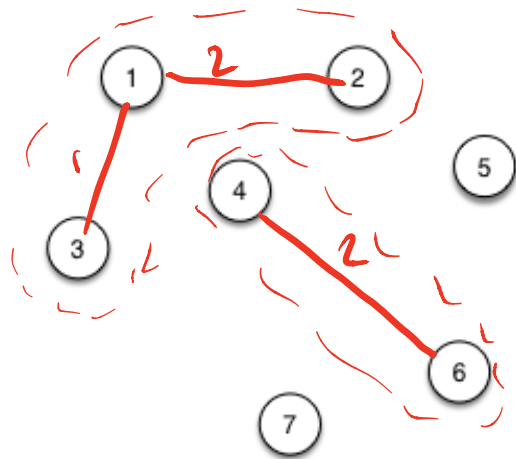


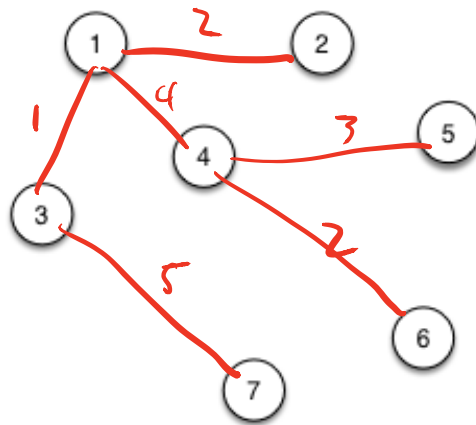
Kruskal's algorithm - with starting vertex 1 and ordering edge pairs with the lower vertex first. Write the edges in order of increasing weight. Show the trees at each step along with the edge that is added.



- $(1,3) = 1$
- $(1,2) = 2$
- $(4,6) = 2$
- $(4,5) = 3$
- $(1,4) = 4$
- $(2,5) = 4$
- $(2,6) = 4$
- $(3,4) = 4$
- $(3,6) = 4$
- $(2,4) = 5$
- $(3,7) = 5$
- $(4,7) = 6$







$$w(T) = 17$$

