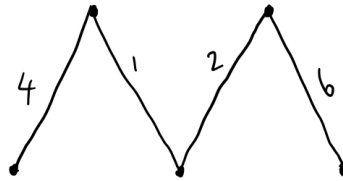
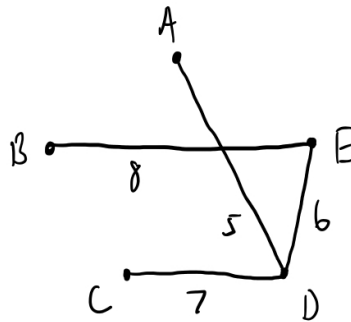


Holen Yee
Graph Theory Homework #11

11.1)



11.2)



11.5)

Lower bound by removing A: 21

Lower bound by removing B: 22

Lower bound by removing D: 22

Lower bound by removing E: 23

11.6)

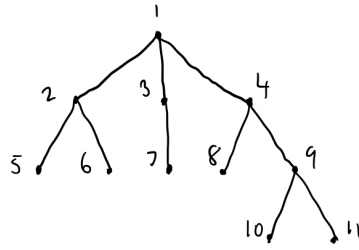
$$|V| = n + 2n + 1 + 1 + 1 = 3n + 3$$

$$|E| = \frac{4n+2n+1+2+1}{2} = \frac{6n+4}{2} = 3n + 2$$

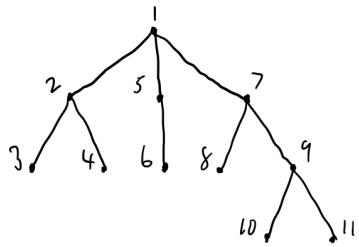
Since $|E| = |V| - 1$, $C_n H_{2n+1} OH$ is a tree.

11.8)

Breadth first search:

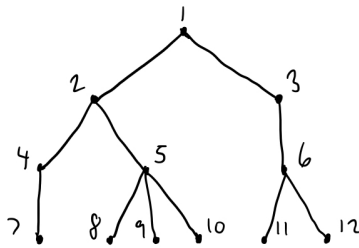


Depth first search:



11.9)

Breadth first search:



Depth first search:

