

3) (10 pts) ALG (AVL Trees)

(a) (8 pts) Create an AVL tree by inserting the following values in the order given: 38, 72, 58, 16, 3, 24, 8, and 15. Show the state of the tree after each insertion.

(b) (2 pts) Draw the state of the tree after the deletion of the node containing the value 16.