

3) (10 pts) ALG (AVL Trees)

Draw an AVL tree **of integers** and designate a single node in the AVL tree such that, if that node were to be deleted, two rebalance operations (not one double rotation, but two separate operations at two different nodes) would occur. Clearly label the node to delete which would precipitate those operations and show the result of deleting that node. (Thus, you should have two drawings, a before drawing of the original tree with the node to be deleted clearly designated, and an after drawing showing what the tree looks like after the node is deleted and goes through 2 rebalance operations.)