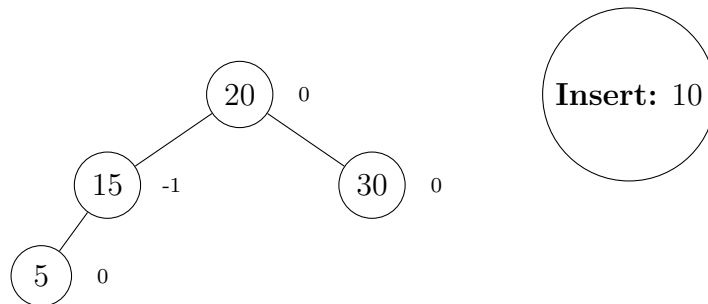


AVL Tree Rotation Worksheet

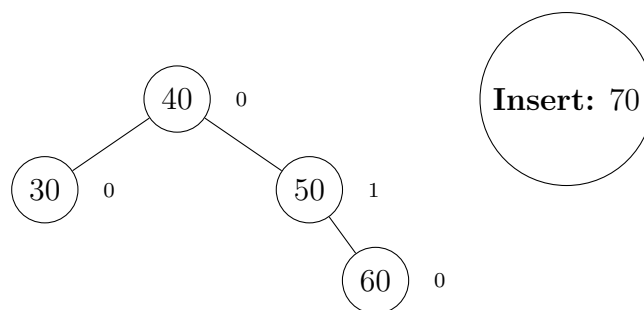
Instructions: For each balanced AVL tree below, insert the specified node. Show the resulting tree after any necessary rotations have been performed. Draw the final balanced tree with all balance factors.

Note: In each tree, the small numbers next to nodes represent their balance factors (height of right subtree - height of left subtree).

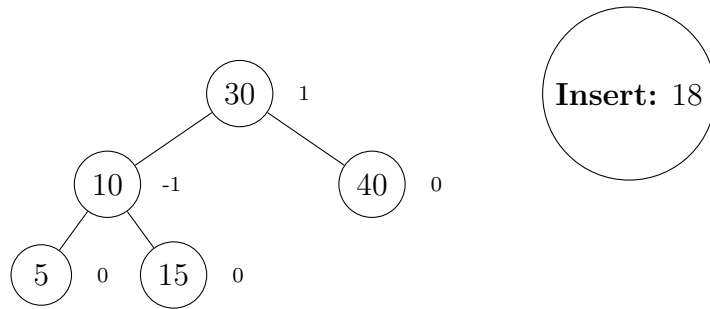
Problem 1. Insert 10 into the following AVL tree:



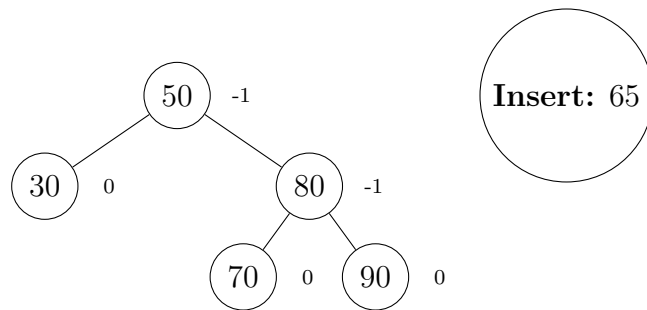
Problem 2. Insert 70 into the following AVL tree:



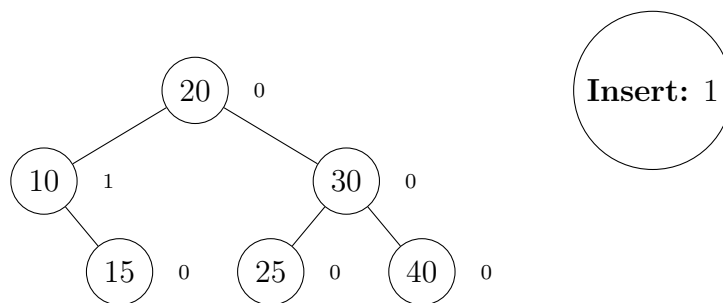
Problem 3. Insert 18 into the following AVL tree:



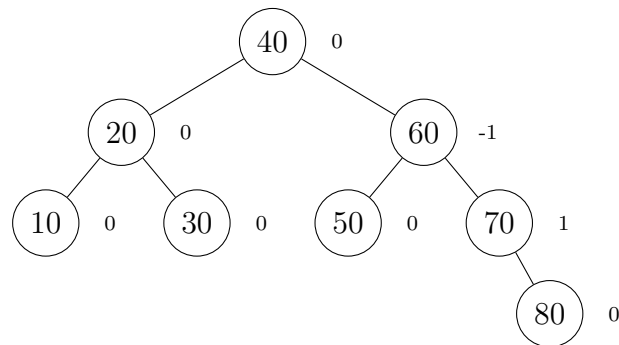
Problem 4. Insert 65 into the following AVL tree:



Problem 5. Insert 1 into the following AVL tree:



Problem 6. Insert 85 into the following AVL tree:



Insert: 85