

Problem 2: 50 45 75 65 70 35 25 15 60  
20 41 30 55 10 80

Insert 50: 50

Insert 45: 50 balanced  
45

Insert 75: 50 Balanced  
45 75

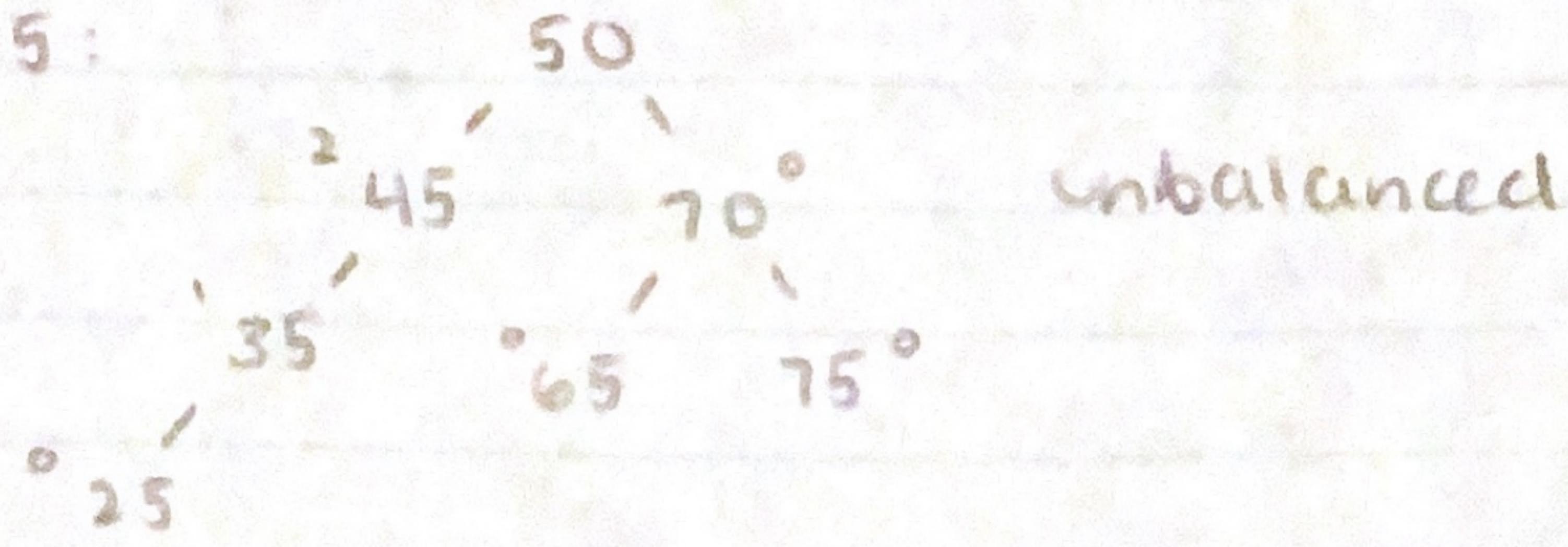
Insert 65: 50  
45 75 Balanced  
65

Insert 70: 50  
45 75 → unbalanced  
65  
70

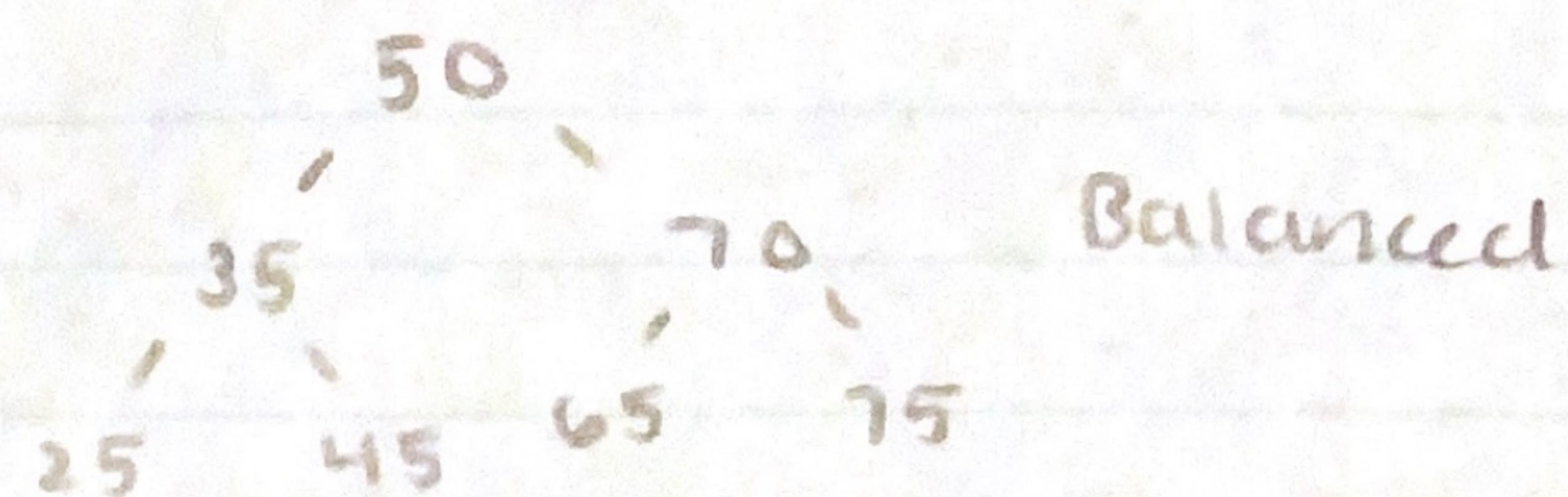
Left Right Rotation: (1) Left - 50 (2) Right 50  
45 75 45 70  
70 65 75  
65 Balanced

Insert 35: 50°  
45 70° Balanced  
35 65 75°

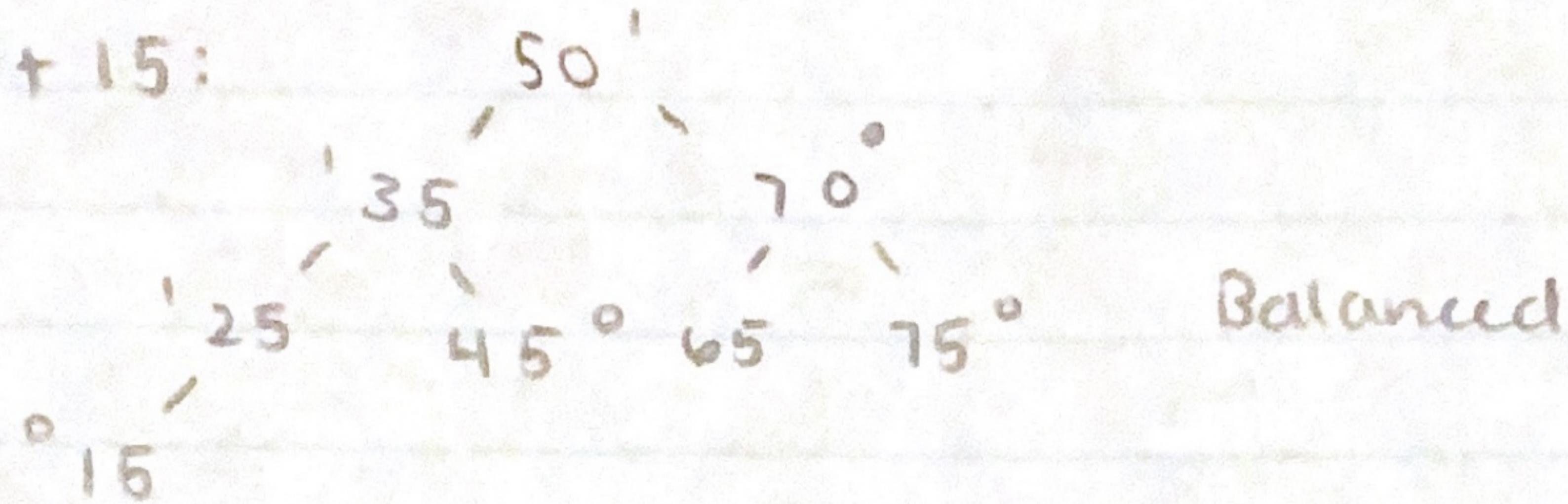
Insert 25:



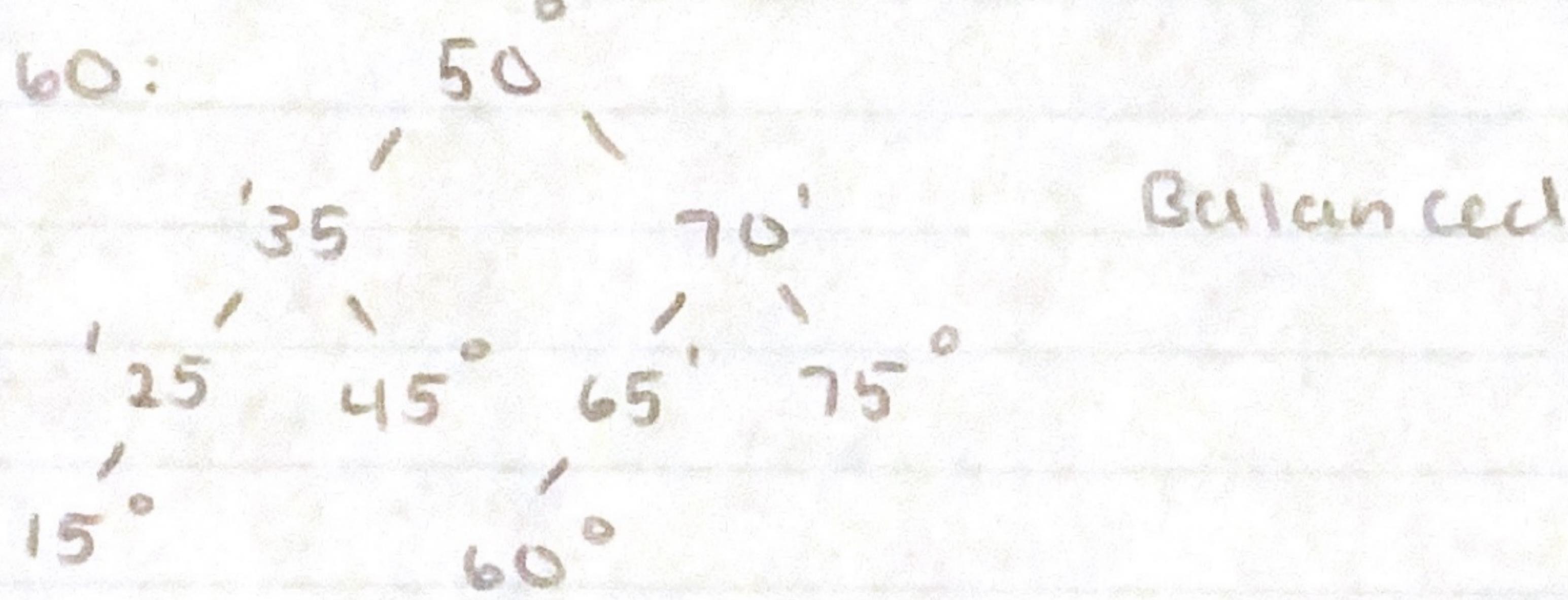
Single Right Rotation (LL):



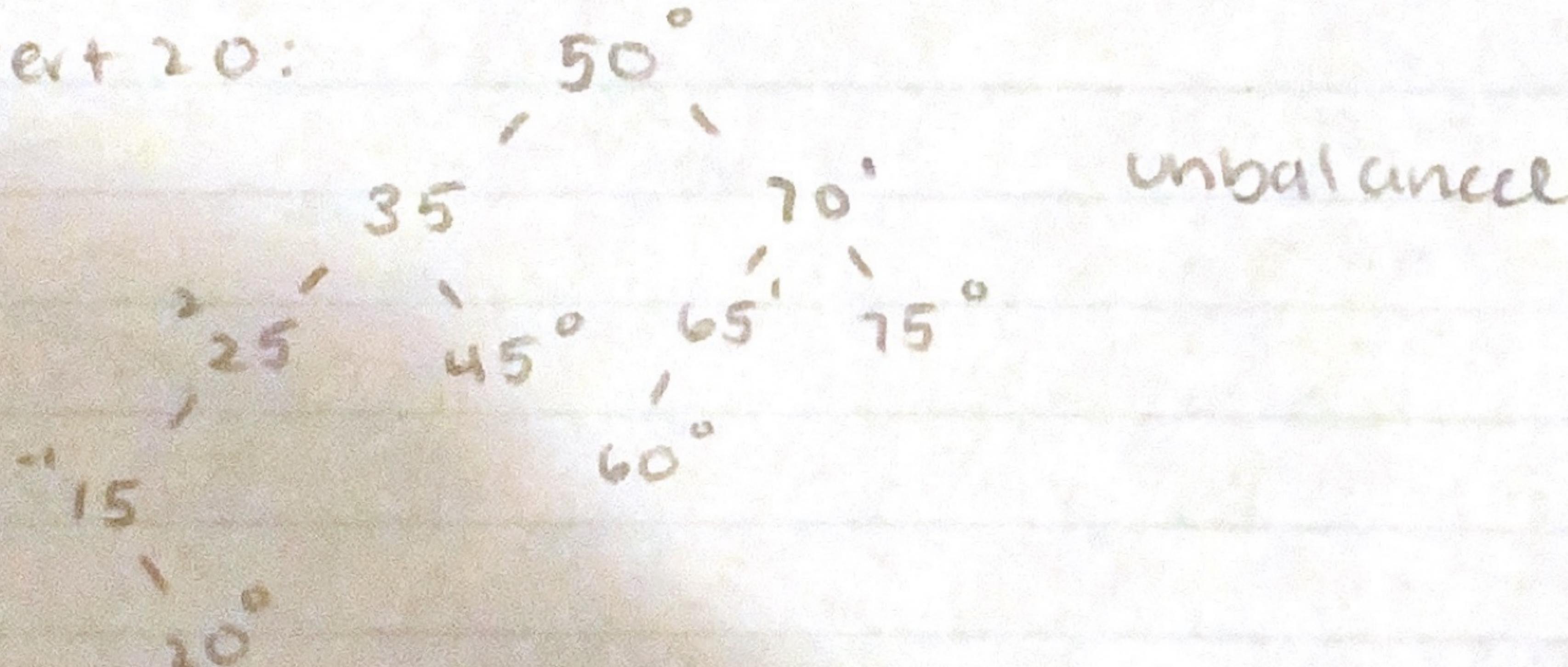
Insert 15:



Insert 60:

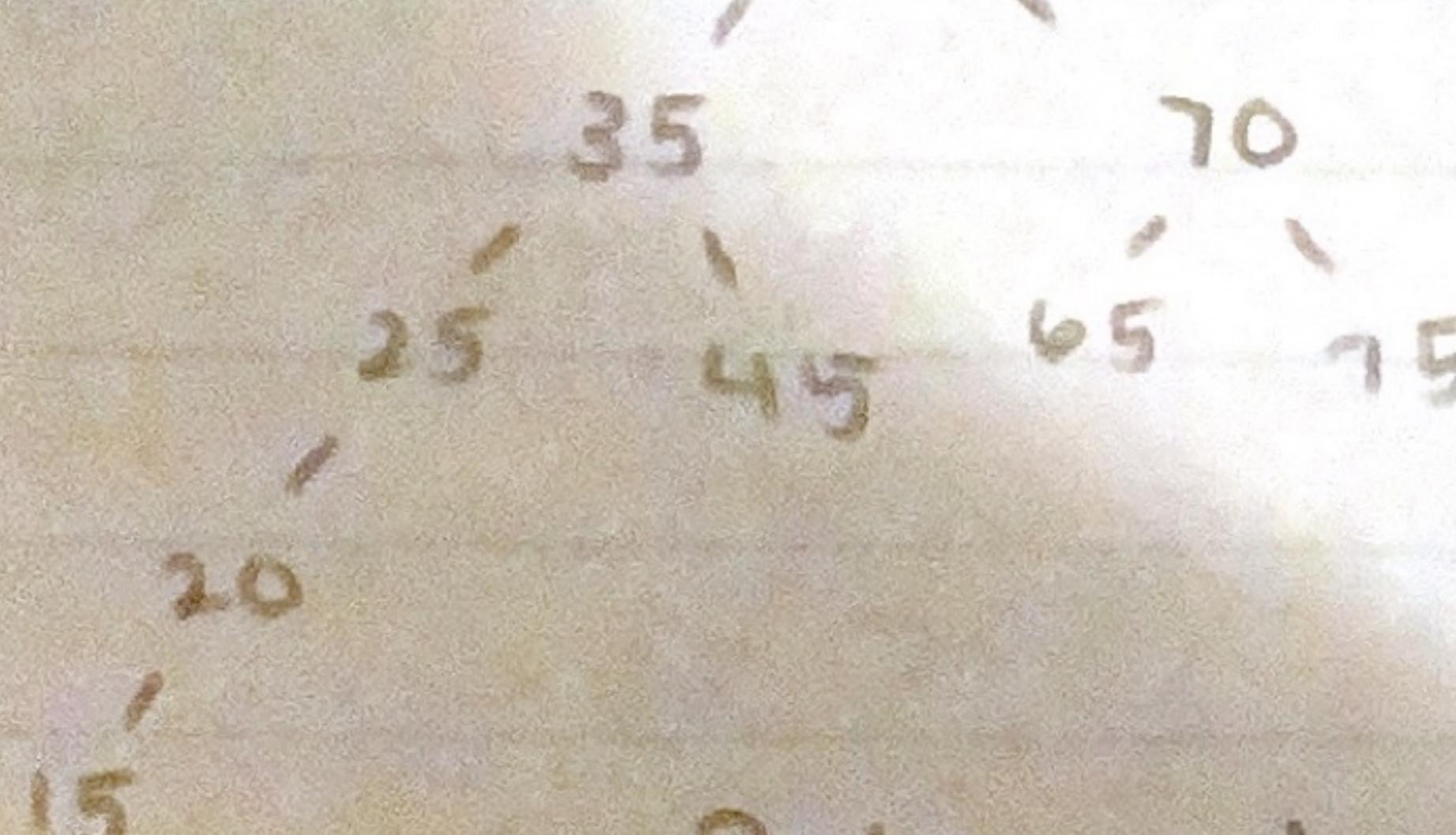


Insert 20:

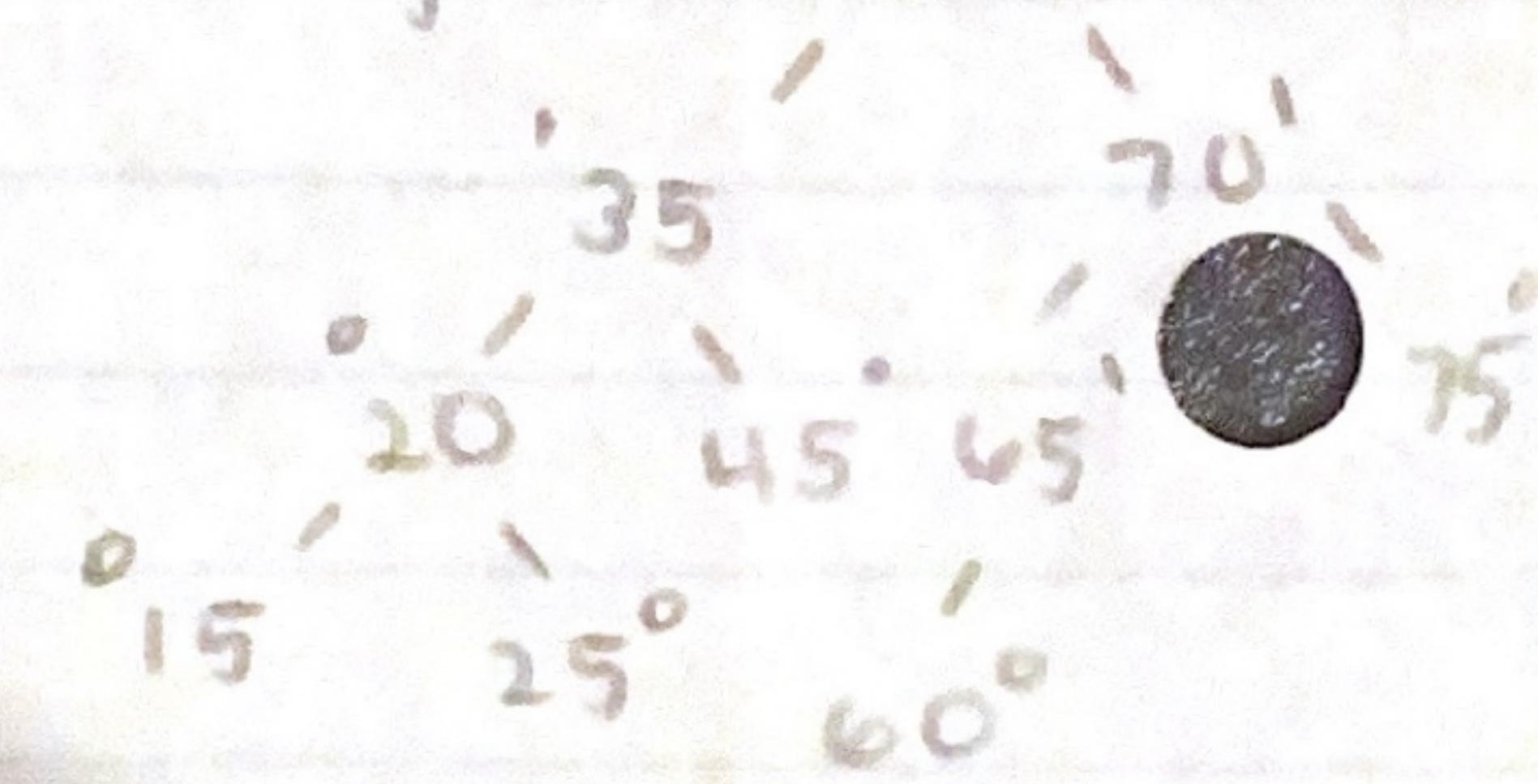


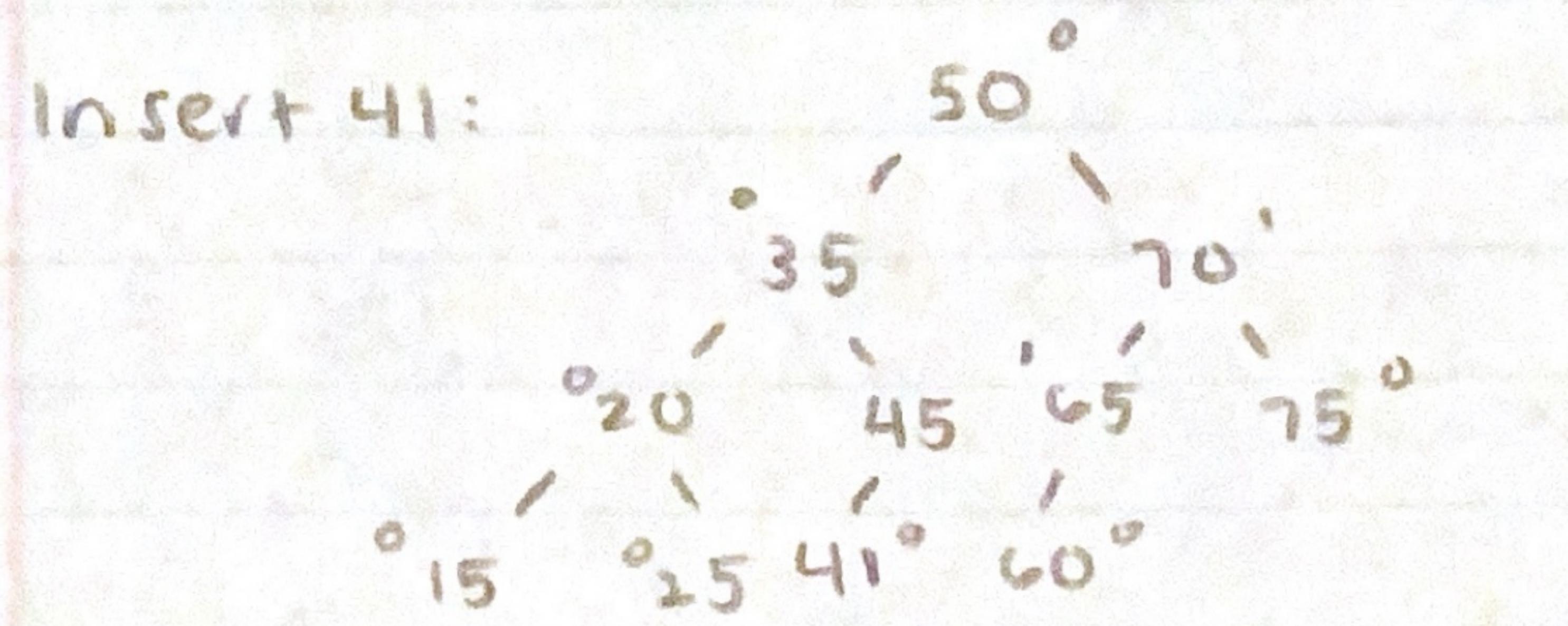
Left Right Rotation: (1) Left

, 50,

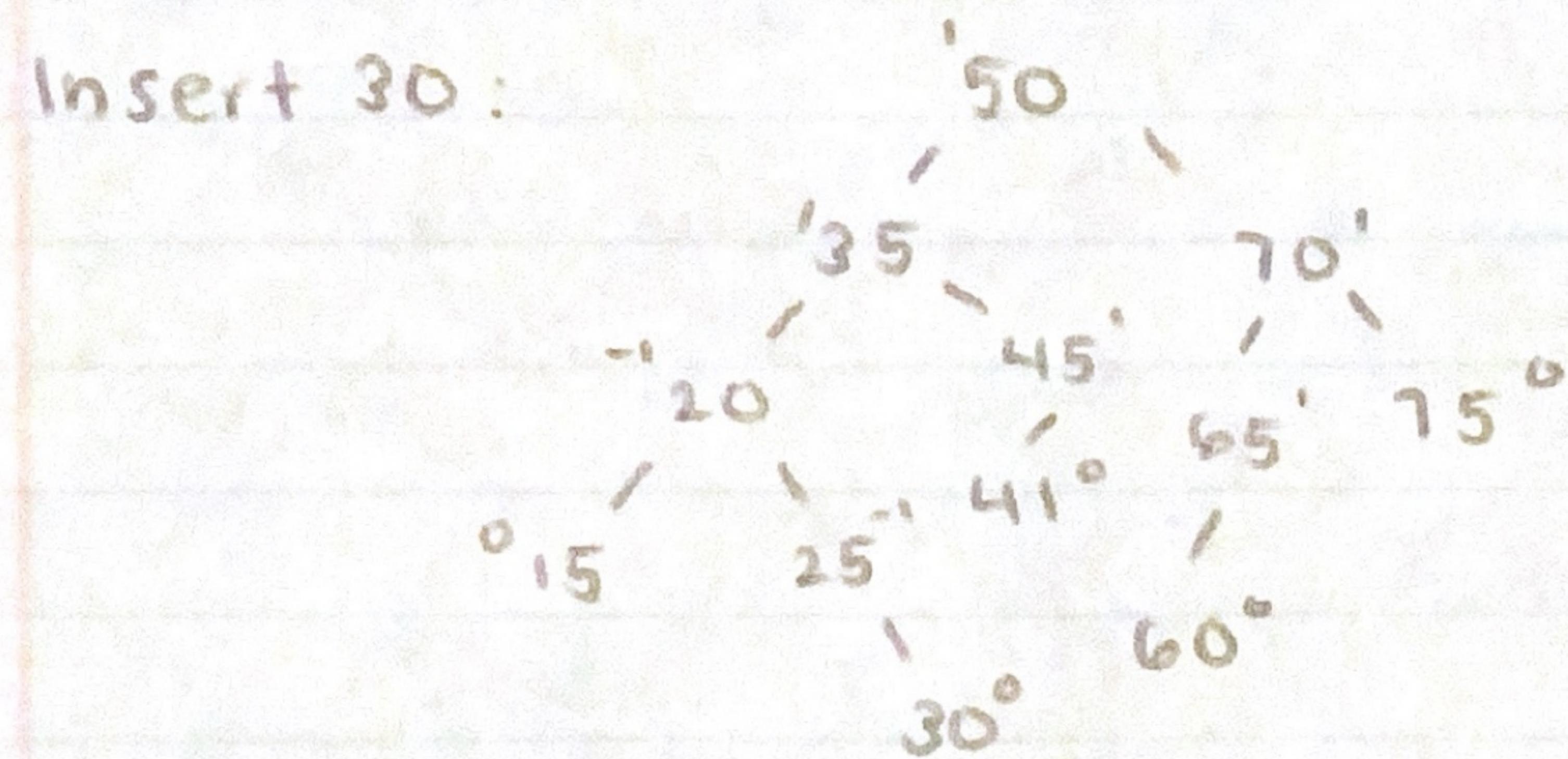


(2) Right , 50

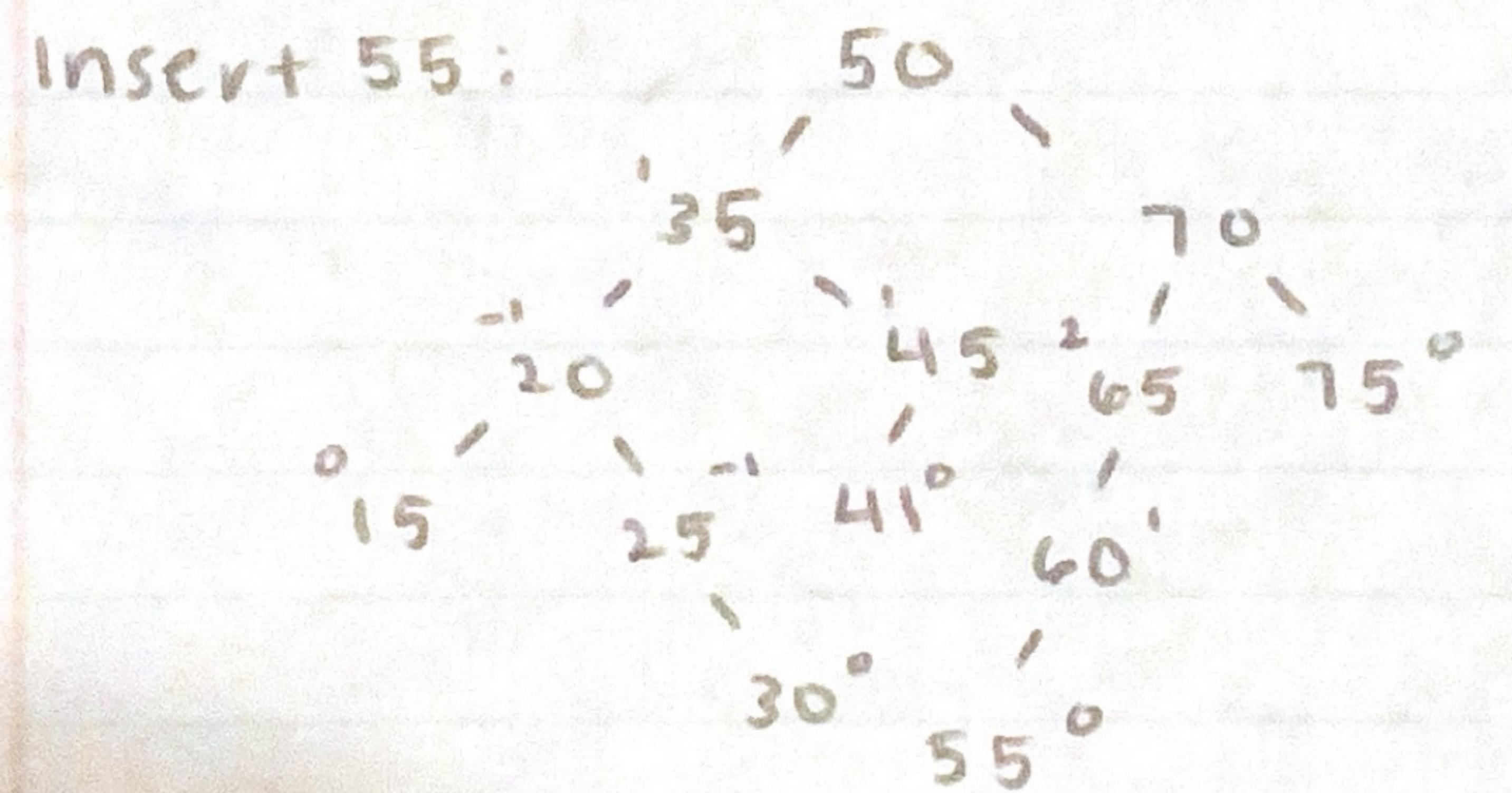




Balanced

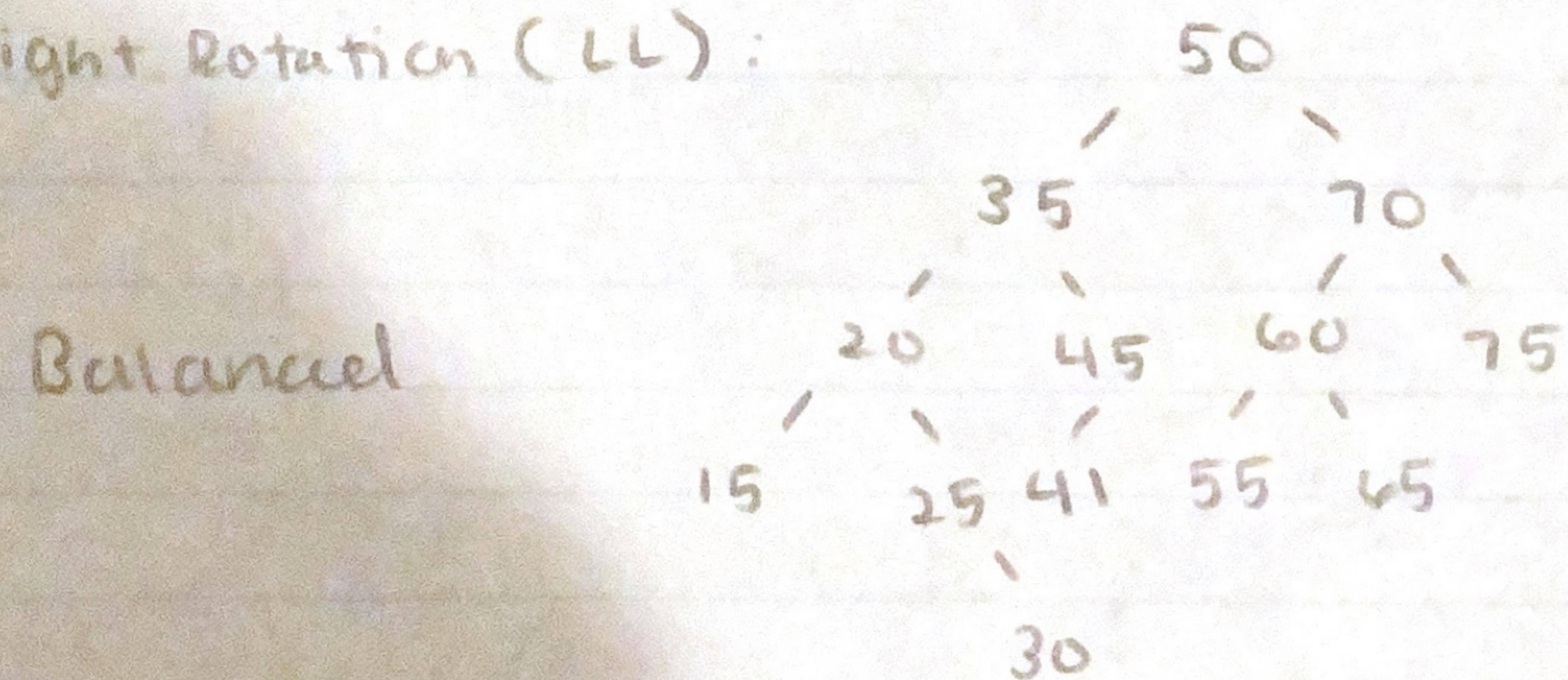


Balanced



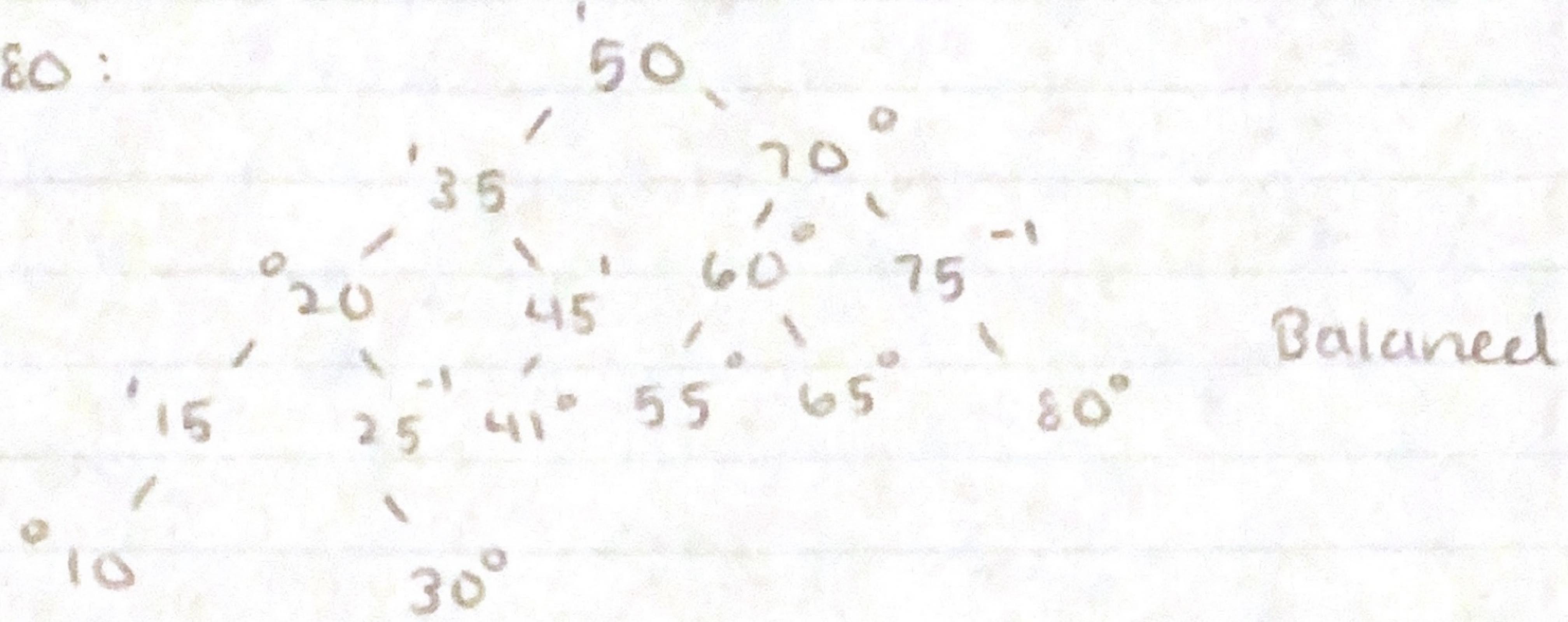
unbalanced

Single Right Rotation (LL):



→ continue

Insert 80:



Balanced

Final Tree:

