(a)

-10	10	20
-20	12	25
-30	15	30
-5	10	15

(i) Minimax Condominium

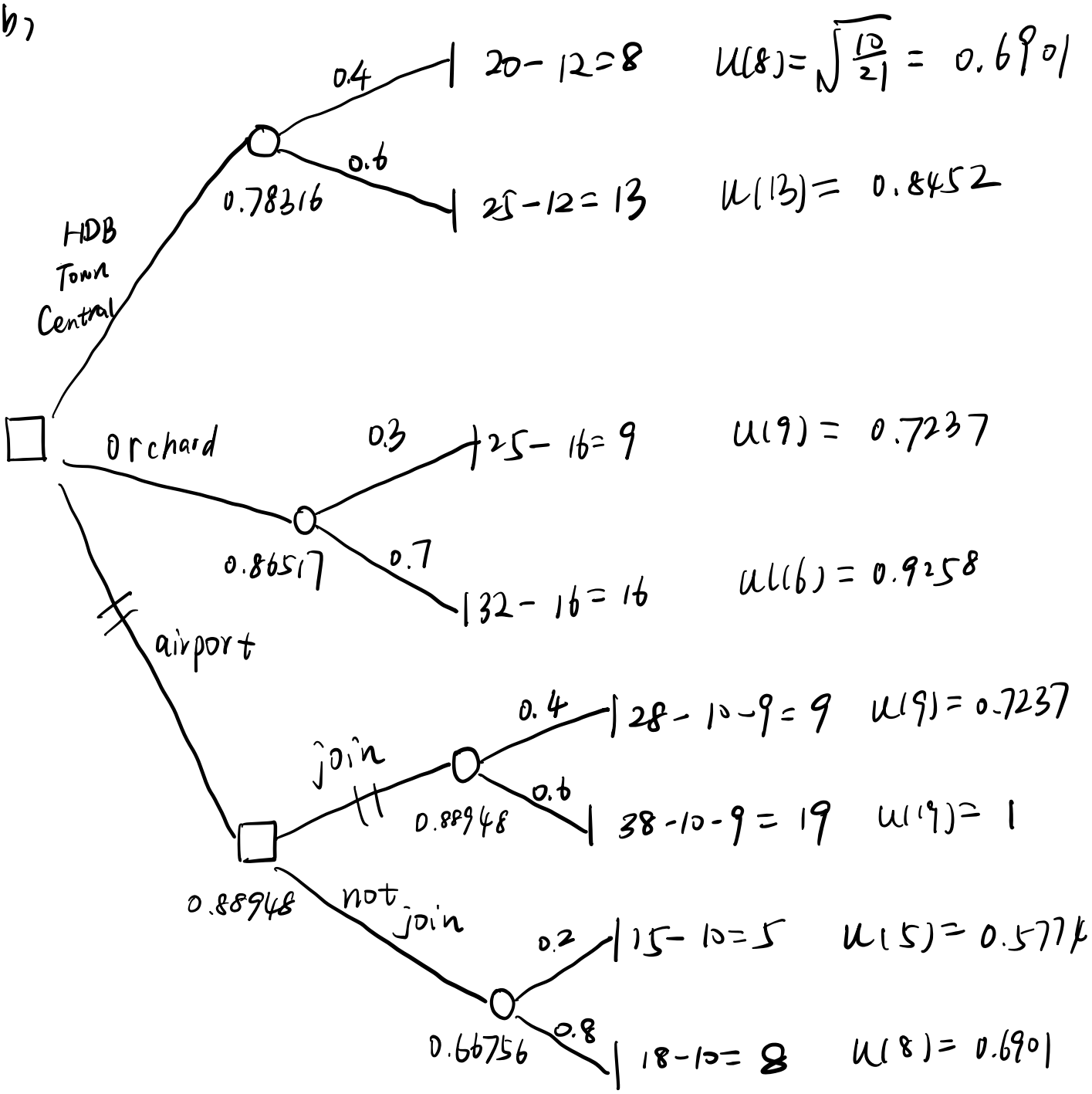
(ii) Maximax Shop

(iii) Regret

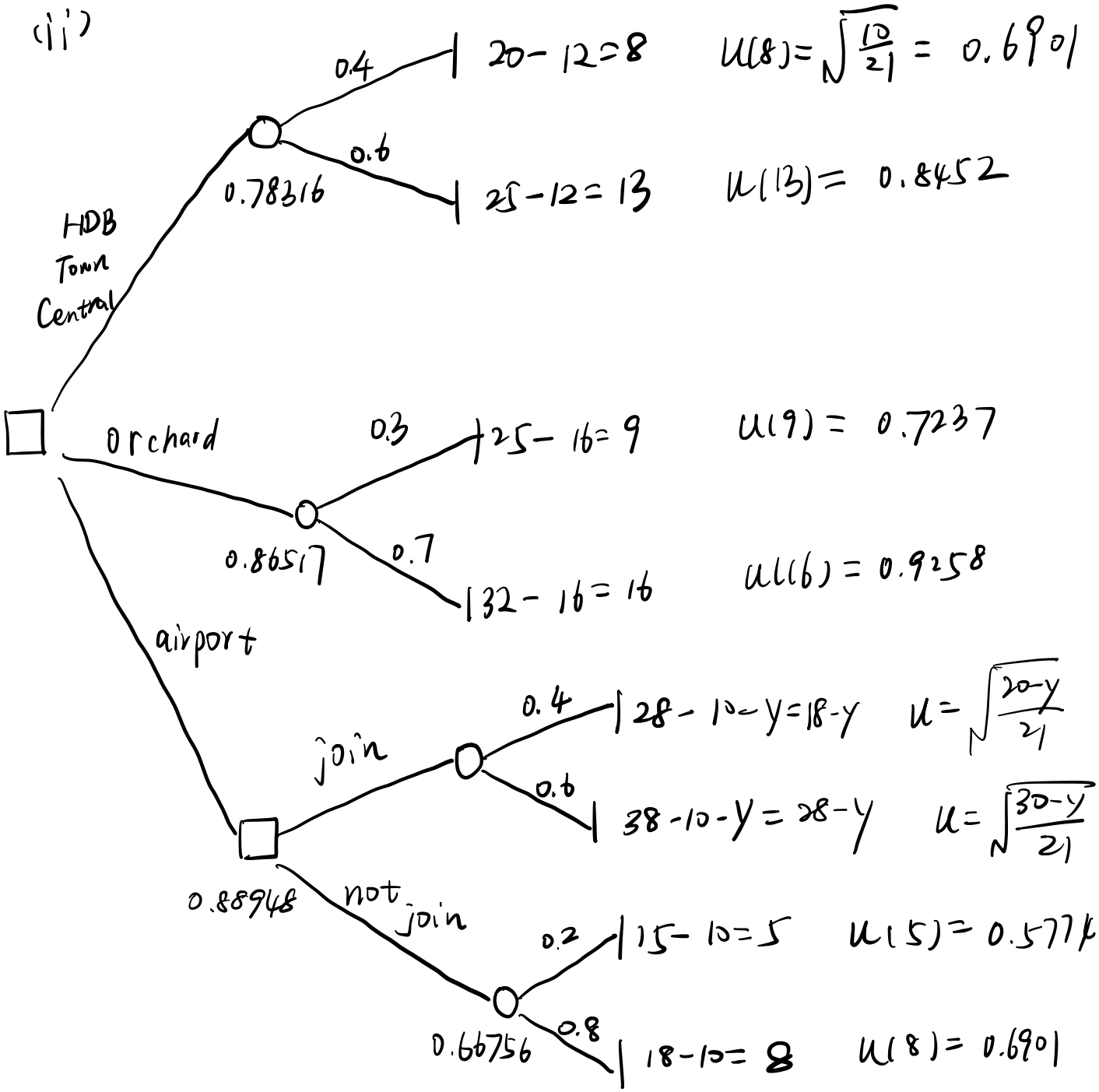
5	5	10	(10)
15	3	5	15
25	0	0	25
0	5	15	15
-5	15	30	

Industrial

(b)


0.4
20 - 12 = 8
u(8) = √(10/21) = 0.691
0.6
25 - 12 = 13
u(13) = 0.8452
0.78316
HDB Town Central
Orchard
0.3
25 - 16 = 9
u(9) = 0.7237
0.86517
0.7
32 - 16 = 16
u(16) = 0.9258
airport
0.4
28 - 10 - 9 = 9
u(9) = 0.7237
join
0.6
38 - 10 - 9 = 19
u(19) = 1
0.88948
0.88948
not join
0.2
15 - 10 = 5
u(5) = 0.5774
0.8
18 - 10 = 8
u(8) = 0.691
0.66756

(ii)



$$0.4\sqrt{\frac{20-y}{21}} + 0.6\sqrt{\frac{30-y}{21}} < 0.86517$$

$$y > 9.87299$$