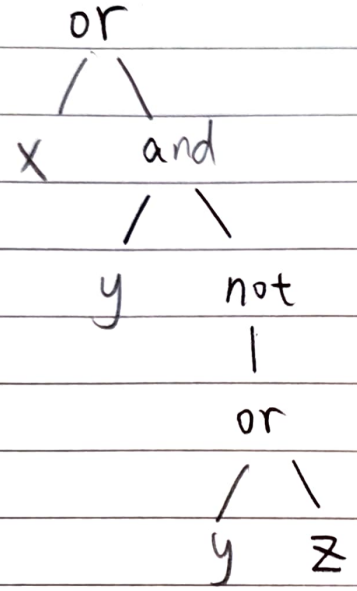
Date. 28.10

Aufgabe 3. (not > and > or)

(a) i)

(x or (y and (not (y or z))))



i) x = True, y = False, z = True

(x or (y and not (y or z)))

= (T ∨ (F ∧ ¬(F ∨ T)))

= T

ii) x = False, y = False, z = False

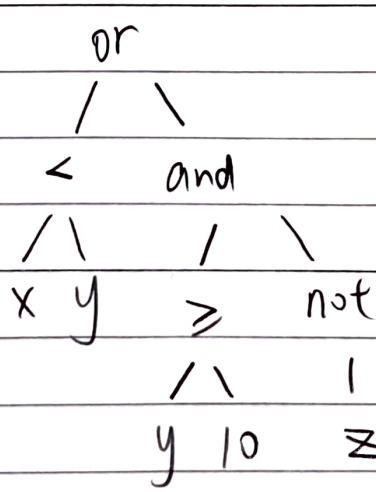
(x or (y and not (y or z)))

= F ∨ (F ∧ ¬(F ∨ F))

= F

(b)

((x<y) or ((y≥10) and (not z)))



i) x = 20, y = 15, z = T

((x<y) or ((y≥10) and (not z)))

= F ∨ (T ∧ F)

= F

ii) x = 3, y = 10, z = F

((x<y) or ((y≥10) and (not z)))

= (T ∨ (T ∧ T))

= T