7000 to 324-lay

AMEN.U4CS B17340

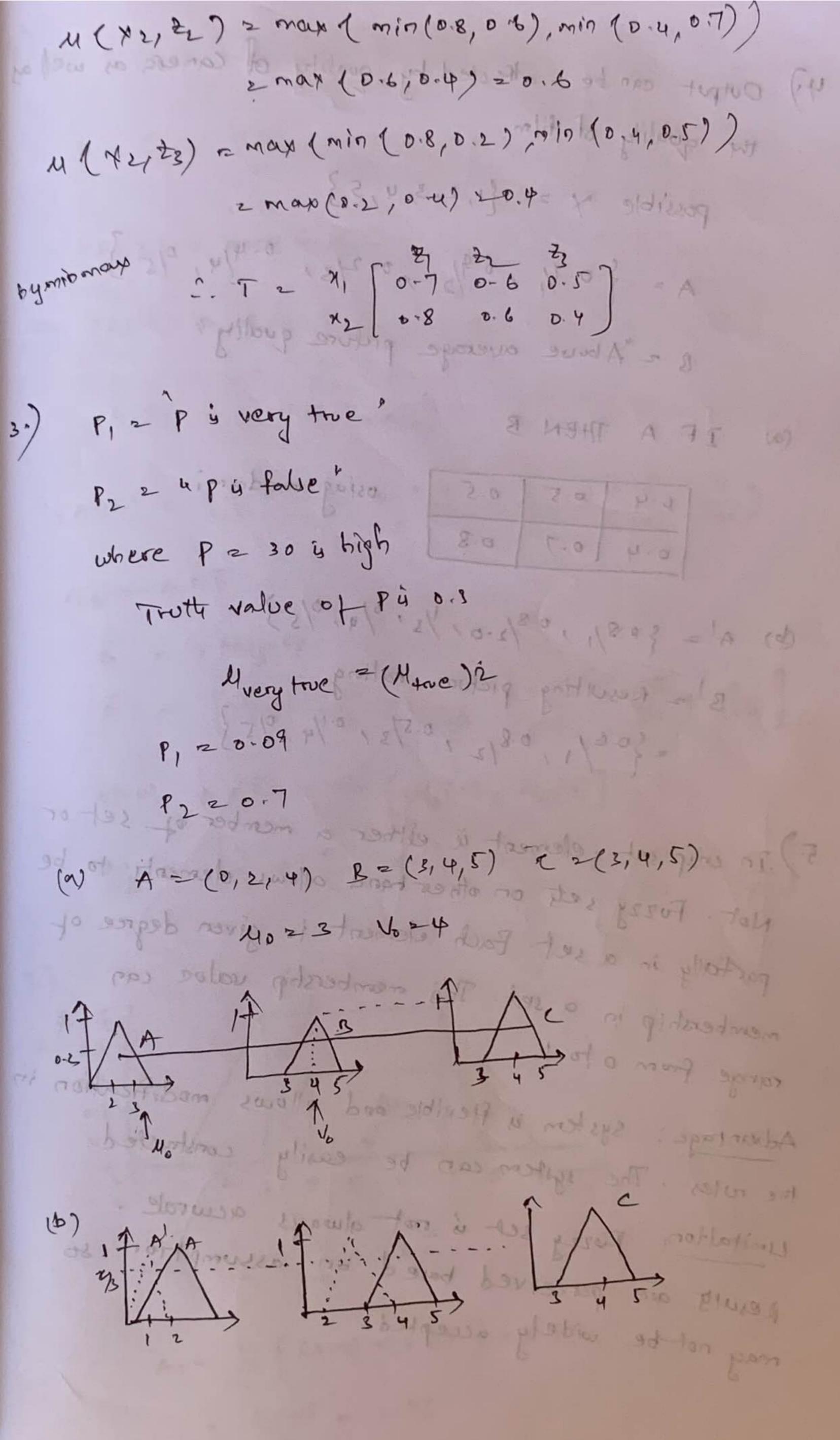
Chara

short = 
$$\left\{\frac{140}{7}, \frac{150}{7}, \frac{120}{5.9}, \frac{170}{5.7}, \frac{120}{5.3}, \frac{120}{5.3}\right\}$$
  
middle =  $\left\{\frac{160}{5.1}, \frac{170}{7}, \frac{180}{5.8}\right\}$ 

4 9

$$Tall = \begin{cases} 180 \\ 0.3 \end{cases}$$
,  $\frac{190}{1}$ 

```
(V) Union of sets => { 140, 150, 160, 170, 180, 190?
 (VII) it - wt for each set where x = 0.5
      short = { 140, 150, 160, 170}
       Middle = [170, 180]
        Tall = { 190 }
                                           081
21) Givey R = 2, [0.7 0.5]
               72 0.8 0.4
         3, [.0.9 0.6 0.2]
                42 [0-1 0-7 70.5]
  es ros map min composition.
      Mrs. (1,4) = max (min /0.7,09), min (0.5,1)
                   2 max (0.7,0.1) 20.7
     as My can be connected to 21 through 4,4 42
    MROS (X1, 22) 2 may (min 10.7, 0.6) min (05, 0.7)
                = max (0.6,0.5)
                                 (= philopibre)
       (2.0+ Faxtot) P. 2 - trods
      (10+1+10+0+000 mod) 8-1 - 3/4 bill
    Similarity ( Similarity ( Min (07, 0.2) min (05,0.5))
                   = max (0.2,0.5) = 0.5
       M.(x2,31) = max (min(0.8,0-9), mn(0.4,0.1))
        1 31
          2 12 061 061 021 021 051 3 051 3 0 10E
```



4) Output can be affected by quality of camera as well the quality of film.

possible x 2 {1,2,3,4,5}

A= {0.7/, 09/2, 0.2/3, 0.4/4, 0/5}

B 2 "Above average pirture quality"

(a) IF A THEN B

10.4	0.5	0.5
0.4	0.7	0.8

Disting madami

2011 4294 6 9

(b) A = {08/1,008/2.01/3,0/4,0/5} B'= resulting picture rating
= {0.6/1,0.8/2,0.5/3,0.1/4,9/5}

5-) In visp set, element à either a member of set or Not. Fuzzy sets on other hand allows elements to be partially in a set. Each element it given degree of membership in a set. This membership value can range from o took.

Advantage: System is flexible and allows modification " the rules. The system can be easily constructed. Mesult are perceived based on assumption so may not be widely accepted.

(A) 
$$B = \frac{1}{0} + \frac{0.8}{2.0} + \frac{0.45}{40} + \frac{0.9}{20} + \frac{0.1}{100}$$

(A)  $B = \frac{0}{0} + \frac{0.45}{20} + \frac{0.45}{40} + \frac{0.8}{20} + \frac{0.95}{20} + \frac{1}{100}$ 

(A)  $B = \frac{1}{0} + \frac{0.45}{20} + \frac{0.45}{40} + \frac{0.8}{60} + \frac{0.95}{80} + \frac{1}{100}$ 

(A)  $B = \frac{1}{0} + \frac{0.25}{20} + \frac{0.25}{40} + \frac{0.25}{60} + \frac{0.95}{80} + \frac{0.05}{100}$ 

(A)  $B = \frac{1}{0} + \frac{0.35}{20} + \frac{0.45}{60} + \frac{0.25}{80} + \frac{0.5}{100}$ 

(A)  $B = \frac{1}{0} + \frac{0.35}{20} + \frac{0.45}{60} + \frac{0.25}{80} + \frac{0.5}{100}$ 

(A)  $A = \frac{1}{0} + \frac{0.35}{20} + \frac{0.45}{60} + \frac{0.25}{80} + \frac{0.5}{100}$ 

(A)  $A = \frac{1}{0} + \frac{0.35}{20} + \frac{0.45}{60} + \frac{0.25}{80} + \frac{0.5}{100}$ 

(A)  $A = \frac{1}{0} + \frac{0.35}{20} + \frac{0.45}{60} + \frac{0.25}{80} + \frac{0.5}{100}$ 

(A)  $A = \frac{1}{0} + \frac{0.35}{20} + \frac{0.45}{60} + \frac{0.25}{80} + \frac{0.5}{100}$ 

A1 = 1/2 [ (3-1) +(7-3)] × 6.5

centre extremal (9-3)+(8-4) 
$$\frac{1}{2}$$
  $\frac{1}{2}$   $\frac{1}{2$ 

Distance represented

NN - 9 very Near

NR - 9 Near

NF - 9 Yery for

FR - 9 Far

Angle for both of of

LT -> left

AL -> Ahead left

AA -> Ahead Right

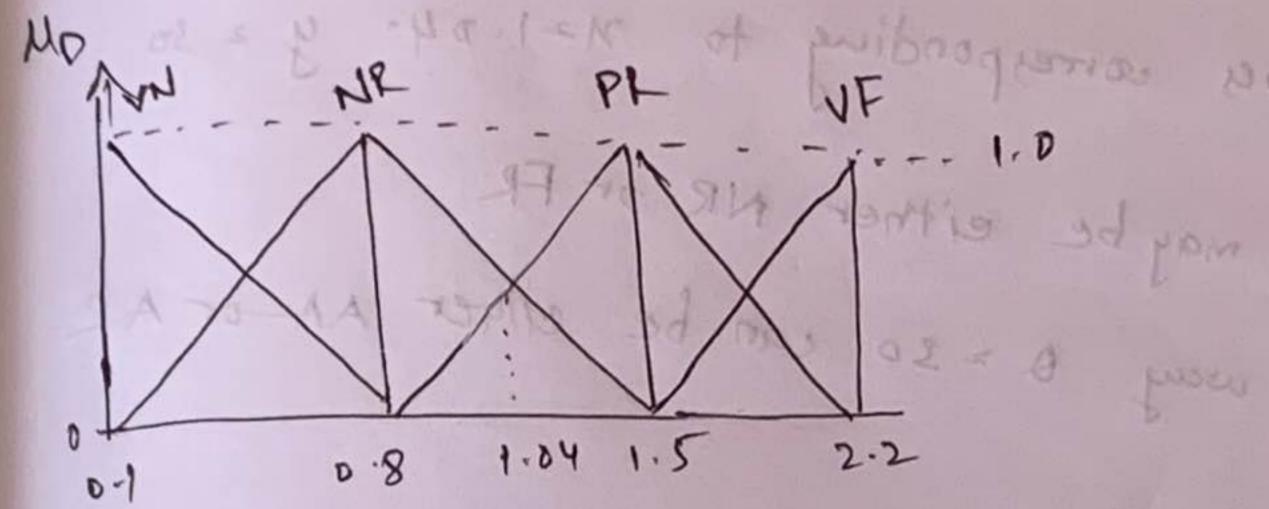
RT -> Right

puscu sonox

Manperstill walnes

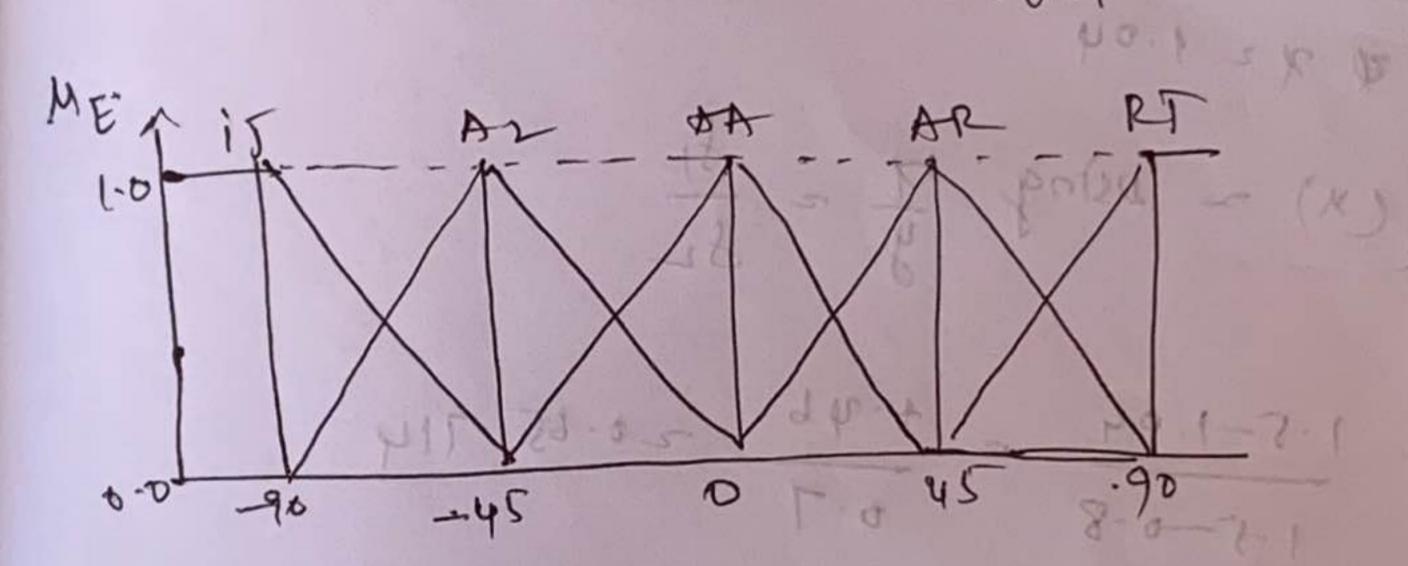
could gidswatners

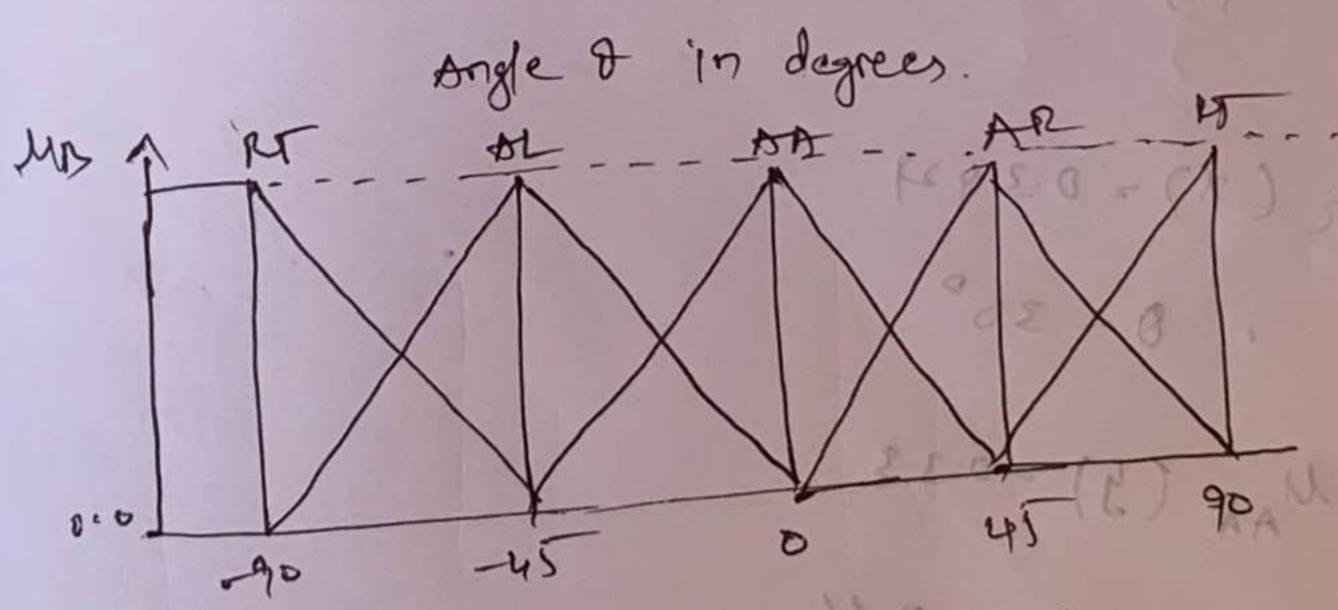
wha! = 1 6-



puitance D v metres crat

AA





Distance & in degree

Rule base AA AL AA AR AA AA AA corresponding to 221-04. Membership valves may be either NR or FR In the same way 0 = 30 can be either AA or Ap -9 D 2 1 -04m membership undver Laster D a sounding Q 721.04 2 1.46 MPR (x) = 0.2429 2300 MAA (4) ~0.33 MAR (4) 2 0-66