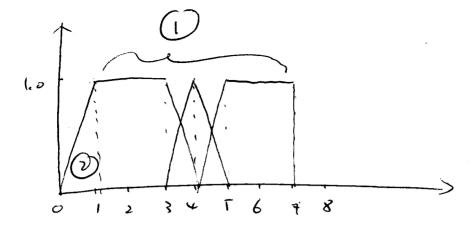
Tu 4:



$$Z_1 = 4$$
, $\alpha_1 = 6x_1 - 1x_0.5 = 5.5$

$$Z_2 = \frac{1}{3}$$

$$\alpha_2 = \frac{1}{2}$$

$$= \frac{2 \cdot a_1 + 2 \cdot a_2}{a_1 + a_2} = \frac{4 \times 5.5 + \frac{2}{3} \times \frac{1}{2}}{5.7 + 0.5} = \frac{22.67}{6} = 3.61$$

For R1: the degree of Comparisition
$$A_{\mu}^{RS}$$
 $w_{1} = 0.5$ $\frac{1}{5}$ $w_{2} = 0.5$

Ol (ii) When x= 0.6, y=0.5.

we have μ active rules. But an leed to $C_i = N$. Since N : 3 symmetric to u = -5, we know that the crisp count output u = -5 by cocalefu 32i fication.

Q3. (i) When x=-0.27 y=1. the firsty strength for both R_1 and R_2 is $0.7 \times 1.0 = 0.7$

The final output (= OTA [ZUN]

(li) The crisp control output u=-5.57 (06) defuzification.

QY: ii) yes.

(1i) we have four actue surce. The firing strongen of each rule is 0.5

(iii) The fazzy onapua 13.

C'= O.T 1 [neg small V neglarge]

1. by COG, me have. u = -15.