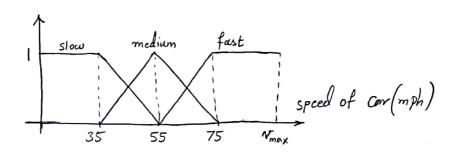
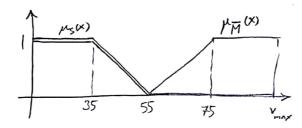
garious op- i

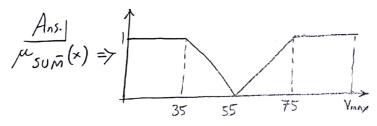
قرین مری دیاری مرک داری

5.4) (5.12) \times is S or \times is not M



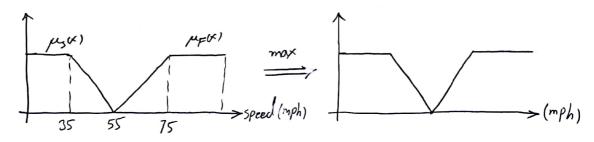
$$\mu_A(x) = \mu_{SUM}(x) = \max \left[\mu_S(x), 1 - \mu_M(x) \right]$$

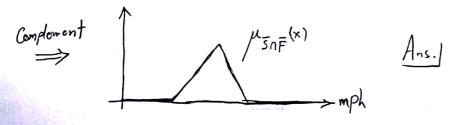




$$\Rightarrow \mu_{\mathcal{B}}(x) = \mu_{\overline{S}\Pi\overline{F}}(x) = 1 - \mu_{SUF}(x)$$

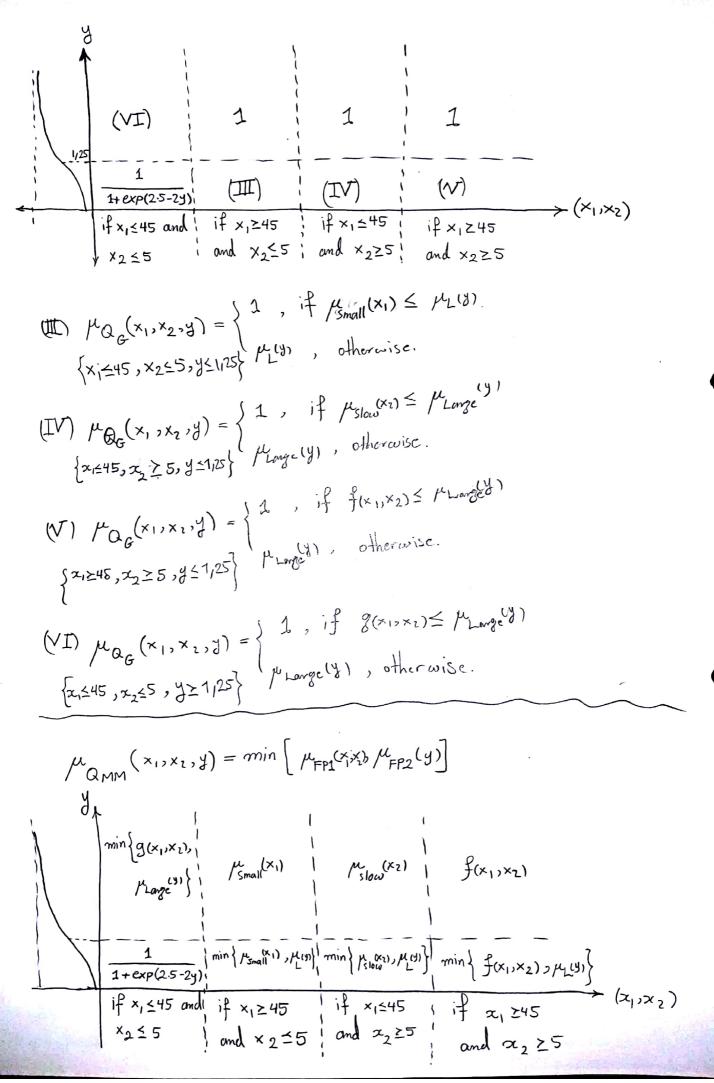
$$= 1 - \max\left[\mu_{S}(x), \mu_{F}(x)\right]$$





$$F_{S,bo}(x_1) = \frac{1}{1 + \exp(\frac{x_1 - 45}{5})}, \quad F_{S,mall}(x_2) = \frac{1}{1 + \exp(\frac{x_2 - 5}{2})}, \quad F_{Loop}(x_2) = \frac{1}{1 + \exp(\frac{x_2 - 5}{5})}, \quad F_{Loop}(x_2) = \frac{1}{1 + \exp(\frac{x_2 - 5}{2})}, \quad F_{Loop}(x_2) = \frac$$

$$\frac{\mu_{Q_{\perp}}(x_{1}, x_{2}, y)}{\lim_{t \to \infty} \left\{ \frac{1}{1}, \frac{1}{1 + \exp(\frac{x_{2}}{1})} \right\} - \frac{1}{1 + \exp(\frac{x_{2}}{1})} + \frac{1}{1 + \exp(\frac{x_{2$$



5.6) Q is called reflexive if
$$\mu_{Q}(u,u)=1$$
 for all $u \in U$.

$$\mu_{Q \circ Q}(x;z) = \max_{q \in Q} t \left[\mu_{Q}(x,y), \mu_{Q}(y,z) \right]$$

$$= \max_{q \in U} \min_{q \in U} \left[\mu_{Q}(x,y), \mu_{Q}(y,z) \right]$$

$$= \max_{q \in U} \min_{q \in U} \left[1, 1 \right] = 1$$

$$\sum_{q \in U} \rho_{Q \circ Q}(u,u) = 1$$

