

Model Ans. G1A 2016

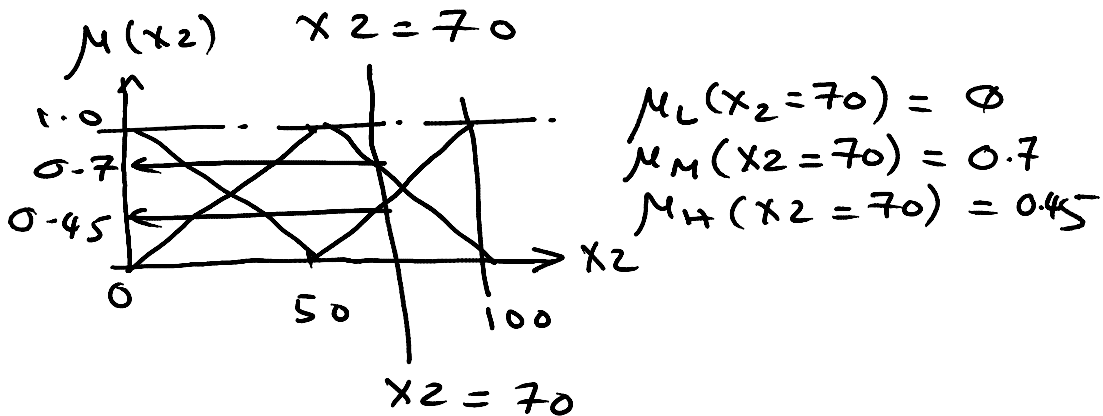
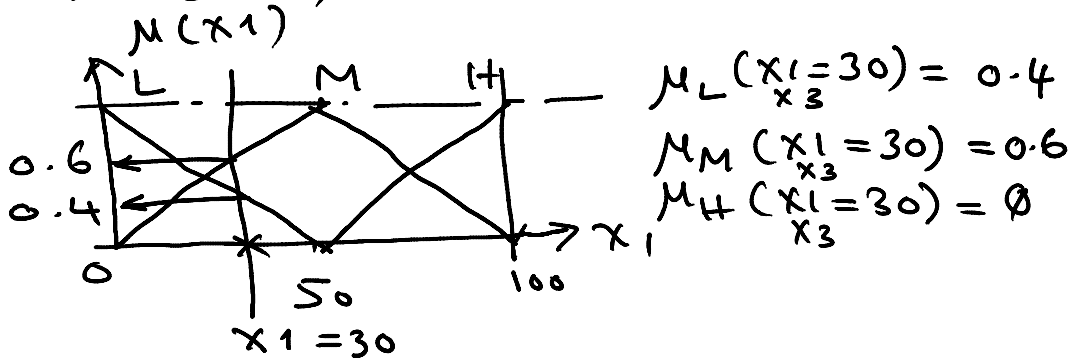
Saturday, January 23, 2016

4:14 AM

Q1

step 1 Fuzzification

$$x_1 = 30, \quad x_3 = 30$$



step 2 Inference

DB1

$$R_1, w_1 = \min(\mu_L(x_1=30), \mu_L(x_2=70)) = 0 \text{ L}$$

$$R_2, w_2 = \min(\mu_M(x_1=30), \mu_H(x_2=70)) = 0.45 \text{ H}$$

DB2

$$\bar{R}_1, w_1 = \min(\mu_L(x_3=30), \mu_L(y)) = 0 \text{ B}$$

$$\bar{R}_2, w_2 = \min(\mu_M(x_3=30), \mu_H(y)) = 0.45 \text{ M}$$

step 3 Defuzzification

$$D = \frac{0B + 0.45M}{0 + 0.45} = \frac{0.45 M}{0.45}$$

= M Malignant!