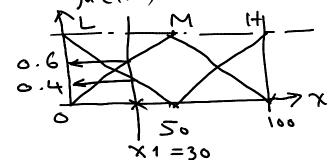
## Model Aus. GA 2016

Saturday, January 23, 2016

<u>Q1</u>

Step1 Fuzzification

x1 = 30 , x3 = 30 x(x1)



$$MH(x_1=30) = 0.4$$

$$M(x_1=30) = 0.4$$

$$M(x_1=30) = 0.4$$

M(42) X = 70 0.45 0.

 $M_L(x_2=70) = \emptyset$   $M_M(x_2=70) = 0.7$  $M_H(x_2=70) = 0.45$ 

Step2 Inference DB1

Ry W, = min (ML (X, = 30), ML (X2 = 70)) = Ø L

RZ WZ=min(MM(XI=30), MH(XZ=70)) = 0.45H

DB2

R) = min (HL (X3 = 30), HL(Y)) = ØB

R2 W2 = min (Mm (X3=30), MH (Y)) = 0.45 M Step3 Defuzzification

D = 013 + 0.45 M

O + 0.45 = 0.45 M

= M Malignant!