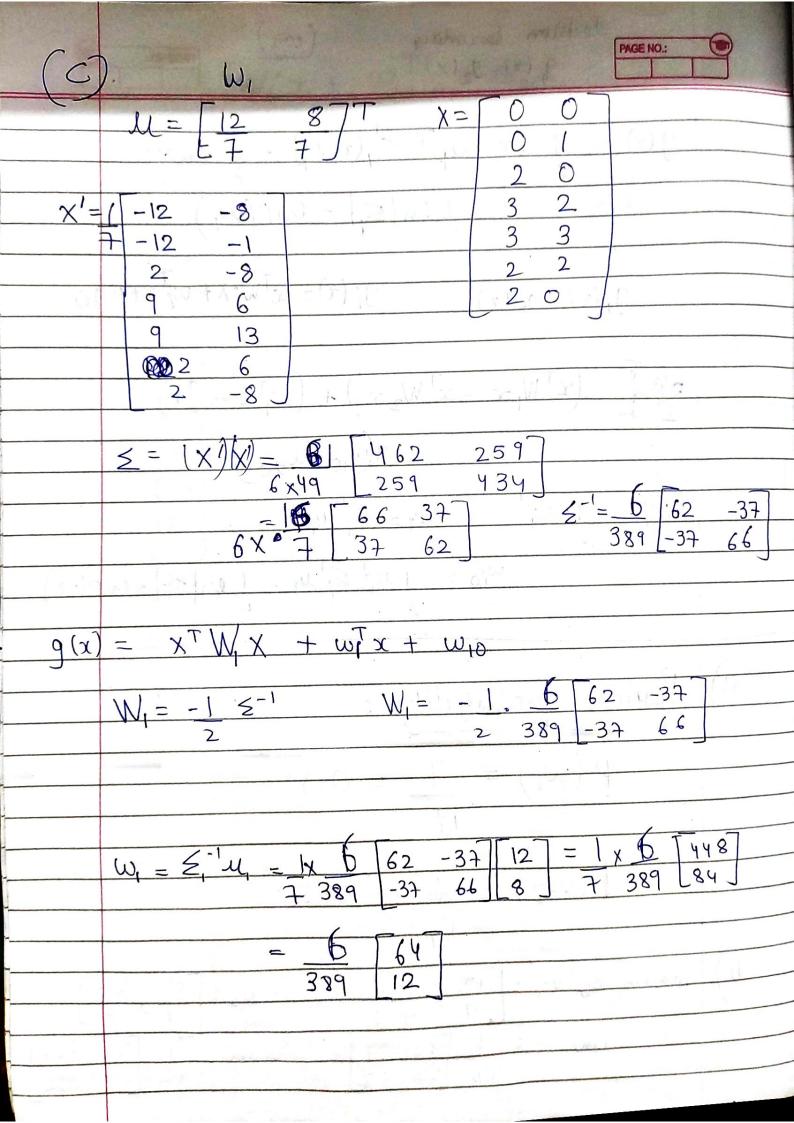
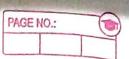
P(w<sub>1</sub>) =  $\frac{7}{7} = 0.5$ P(w<sub>2</sub>) =  $\frac{7}{7} = 0.5$ b) mean of w<sub>1</sub>:  $\begin{bmatrix} 12 & 8 \\ 7 & 7 \end{bmatrix}$  w<sub>2</sub>:  $\begin{bmatrix} 54 & 60 \\ 7 & 7 \end{bmatrix}$ au :  $\begin{bmatrix} 66 & 37 \\ 42 & 37 & 62 \end{bmatrix}$  cou;  $\begin{bmatrix} 1 & 24 & -27 \\ 42 & -27 & 152 \end{bmatrix}$ 



$$\omega_{10} = -1 \cdot (639)$$

$$\omega_{10} = -\frac{1}{2} \cdot \omega_{1}^{T} \geq \frac{1}{2} \cdot \omega_{1} - \frac{1}{2} \ln |\mathcal{E}_{1}| + \ln P(\omega_{1})$$

$$= -\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$$

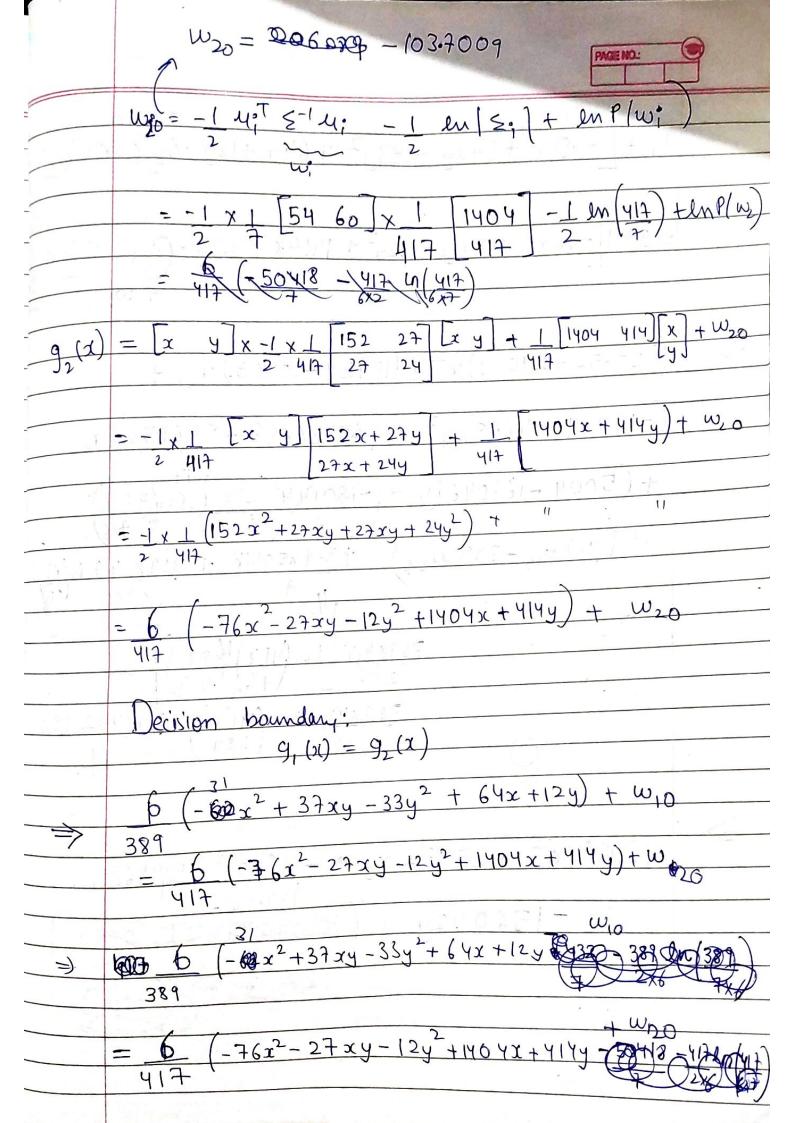


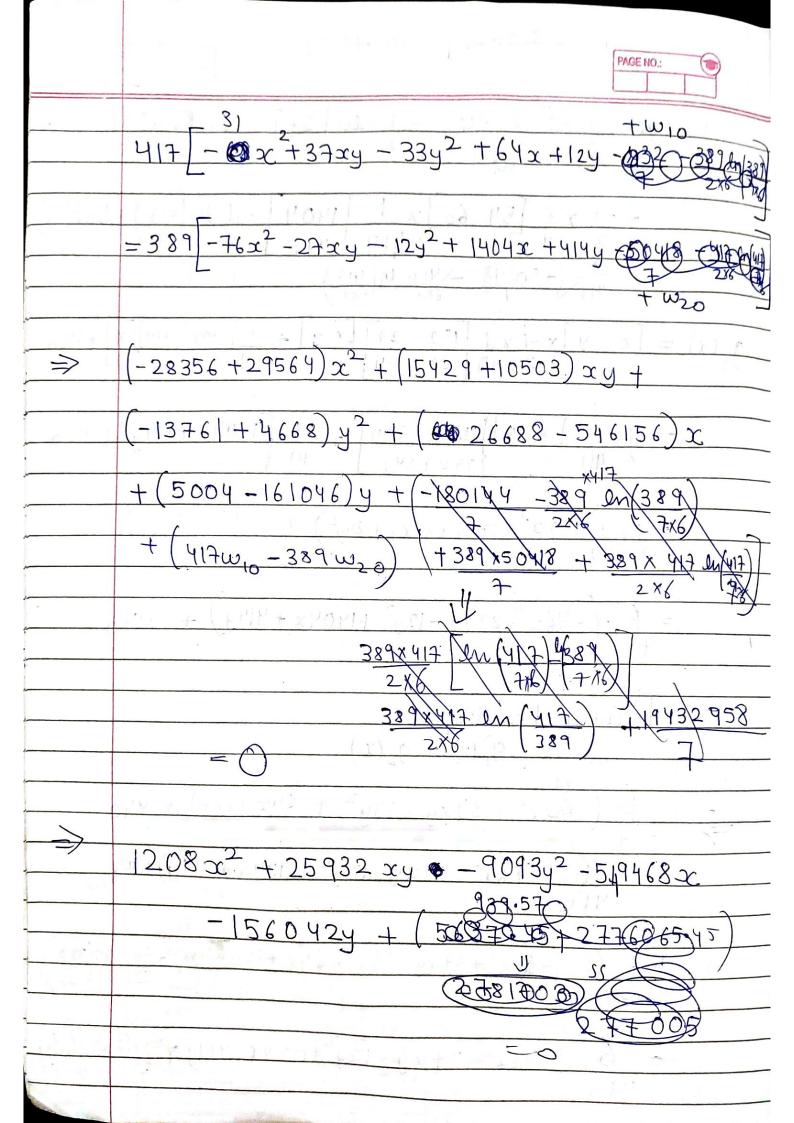
4=	1 54		χ =	T77	7
	+ 60		1	8 6	
10/ 1				97	
x'=1	-85	-11		8 10	T
+	2	-18	9 / 8	7 10	
	9	-11	end .	8 9	T
	2	10		7 11	
	- <b>6</b> 5	10	10.	AXXXII =	<del>)</del> —
	2	3	£	FERVE	
	- 🔰 5	17/2	1.D-0012	E. (0-).	
					_

$$417 \cdot 27 = 24$$

$$W_2 = -1 \le -1 = -1 \times 6 = 152 = 27$$
 $= 2 \times 117 = 27 = 24$ 

$$w_2 = \frac{5^1}{2} u_2 = \frac{152}{417} \frac{27}{27} \frac{27}{24} \frac{154}{7}$$





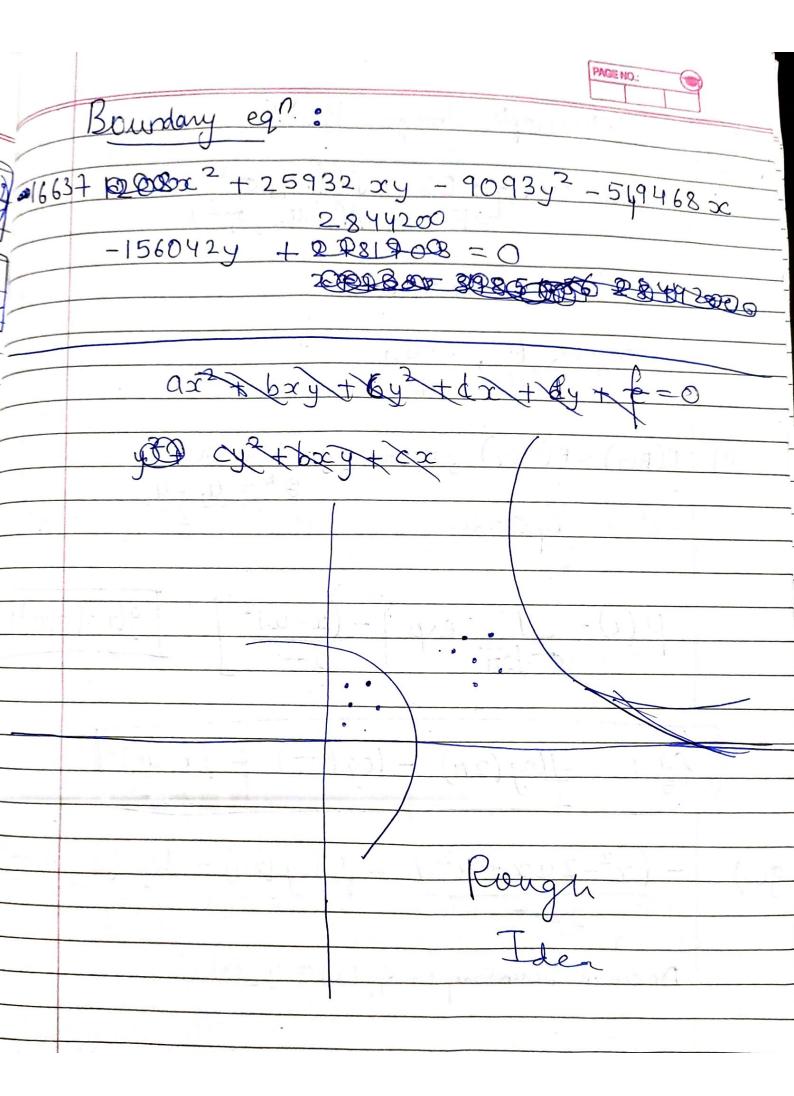
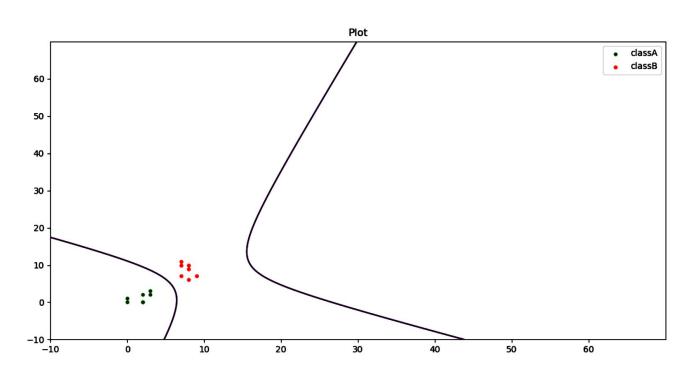


Figure 1



 $P(x|w_1) P(w_1) C(w_1) = P(z|w_2) P(w_2) C(w_2)$  $2P(x|w_1)P(w_1) = P(x|w_2)P(w_2)$ In 2 + ln (P(x | w1) + enp(v2) = ln (P(x | w2) + nn (P(w)) Con Earlier boundary condition

The decision boundary still looks the same,

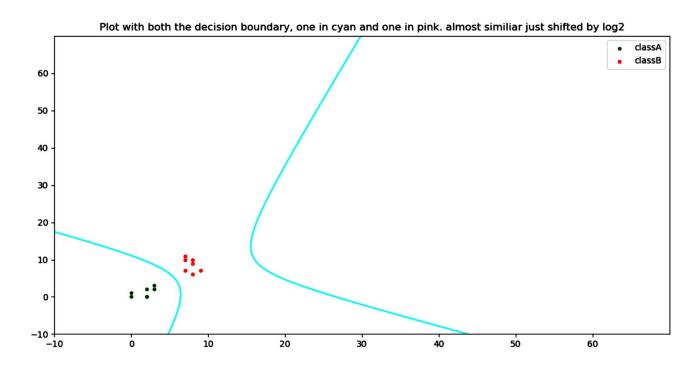
16637x2 + 25932xy - 9093y2 - 549463x -156042y + 300500 + en 2 = 0 284420

306xb=23900)

c(w) = 2 c(w2)

(0)

>



# (+) +| Q = |

x=47.8045 y=0.581421