Two checks from today Exam II - May 1st presendation: may 3 rd may 5th report. N770 W17=0 2+ Co wix

$$0.5 \times 1 + .5 \times 2 = 2.4$$

$$\beta = \begin{bmatrix} b & w_1 & w_2 \end{bmatrix}$$

$$7_{1} = [1, 1]^{T}, class\# - 1$$
 $7_{2} = [2, 1]^{T}, class\# - 1$
 $7_{3} = [1, 2]^{T}, class\# - 1$
 $7_{4} = [3, 3]^{T}, class\# + 1$
 $7_{5} = [4]$

$$5 = (4, 4)^T$$
, $class\# + 1$
 $6 = (0, 0)^T$, $class\# - 1$
 $6 = (1.5, 1.5)^T$, $class\# - 1$

$$L_p = \frac{1}{2}||oldsymbol{eta}||^2 - \sum_{i=1}^n \lambda_i(y_i \cdot oldsymbol{eta}^T \mathbf{x}_i - 1)$$

$$Lp = \frac{1}{2}b^2 + \frac{1}{2}w_1^2 + \frac{1}{2}w_2^2 - (\lambda_1(-1)(b+w_1+w_2-1))$$

$$\rightarrow h3(-1)(b+W1+2W2-1)+$$

$$\frac{\partial Lp}{\partial w_1} = w_1 + h_1 + 2h_2 + h_3 - 3h_4 = 8$$

Unknows

1, 2, 2, 4

b, W1, W2

$$\frac{\partial LP}{\partial W_2} = W_2 + \lambda I + \lambda 2 + 2\lambda 3 - 3\lambda 4 = 8$$

$$\frac{\delta L p}{\delta b} = b + \lambda_1 + \lambda_2 + \lambda_3 - \lambda_4 = 0$$

$$\frac{\delta L\rho}{\delta h} = b + w_1 + w_2 - 1 = 0$$

$$\frac{82p}{82} = b + 2m + m2 - 1 = 8$$

$$\frac{\partial LP}{\partial \mu} = -b - 3W1 - 3W2 + 1 = 8$$

$$\begin{bmatrix}
1 & 0 & 0 & 1 & 2 & 1 & -3 \\
0 & 1 & 0 & 1 & 2 & -3 \\
0 & 0 & 1 & 1 & 1 & -1
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 1 & 0 & 0 & 0 & 0 \\
2 & 1 & 1 & 0 & 0 & 0 \\
1 & 2 & 0 & 0 & 0
\end{bmatrix}$$

$$\begin{bmatrix}
1 & 2 & 1 & 0 & 0 & 0 \\
-3 & -3 & -1
\end{bmatrix}$$

$$w_1 = 0.5$$
 $w_2 = 0.5$
 $w_3 = 0.5$
 $w_4 = 0.5$







