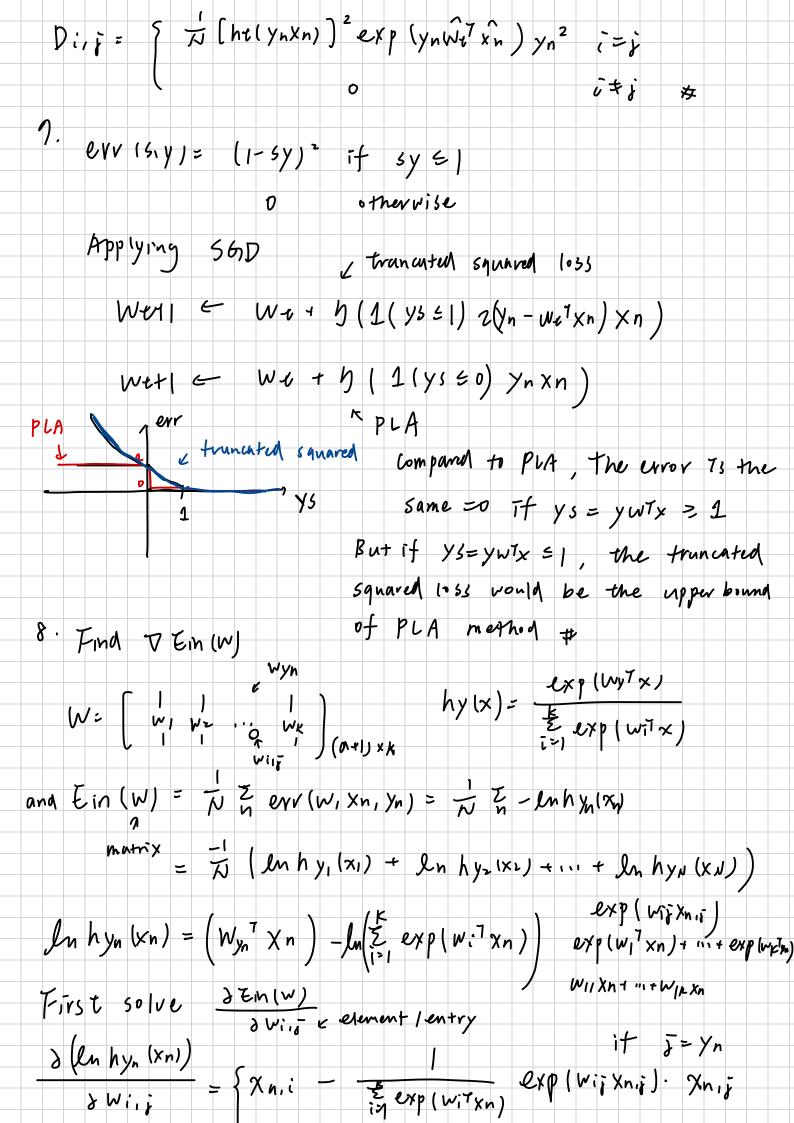
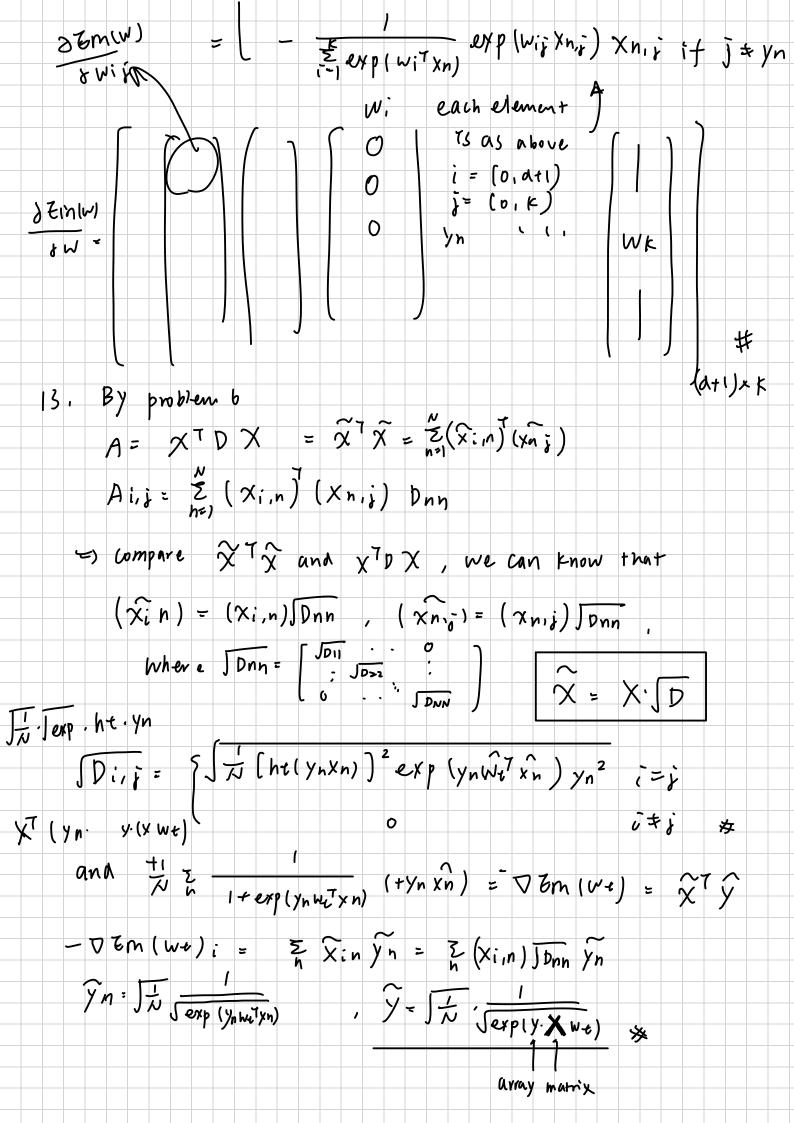
Mauhine learning HW3

Auguror

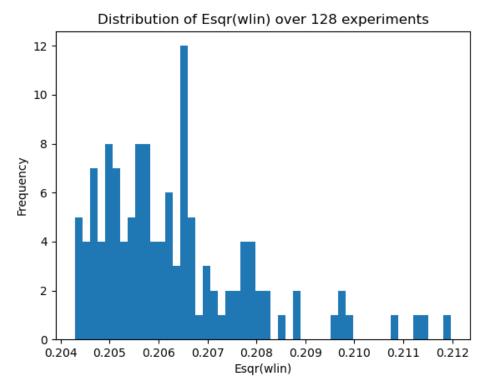
Bhollow Ages 21

1.
$$\hat{y} = \begin{cases} +1 & |p| \\ |p| \\ |p| \end{cases}$$
 | $|p| \\ |p| \\ |p| \end{cases}$ | $|p| \\ |p|$ | $|p|$ | $|p|$

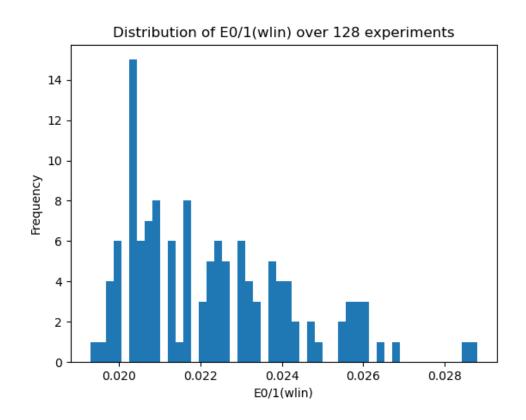




9. Median Esqr over 128 experiments: 0.20595399486341354

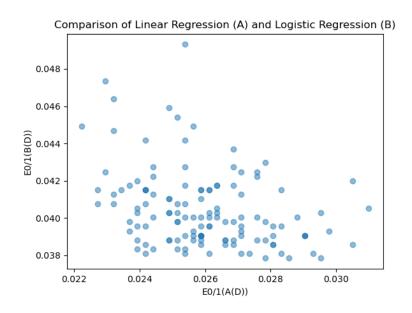


10. Median E0/1 over 128 experiments: 0.02197265625



11.
Median E0/1(A(D)) over 128 experiments: 0.022216796875
Median E0/1(B(D)) over 128 experiments: 0.0357666015625

12.



Median E0/1(A(D)) over 128 experiments: 0.0350341796875

Median E0/1(B(D)) over 128 experiments: 0.038818359375

We see that as we add outlier examples, the error rate is getting higher for linear regression and for logistic regression, which is due to new data with different mean and covariance being added. Compared to two types of regressions, we see that linear regression changes more obviously than logistic one.

