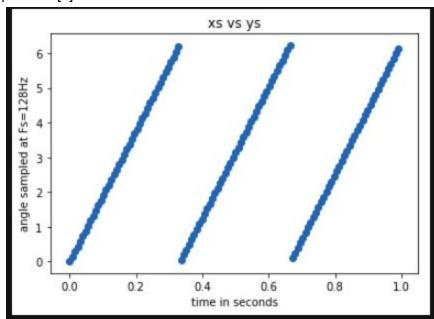
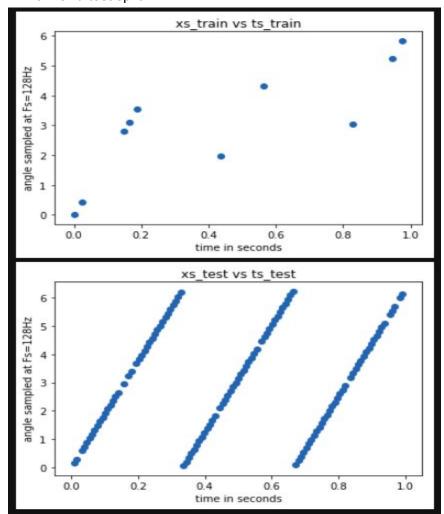
1: The plot of Θ[n]:

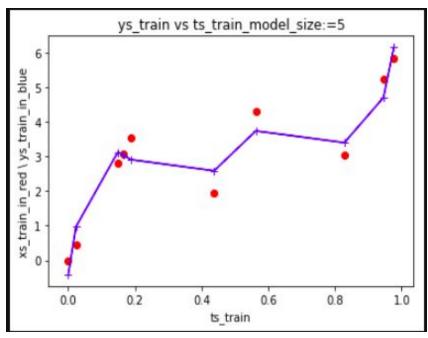


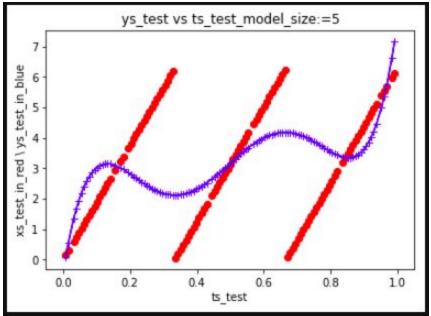
a.

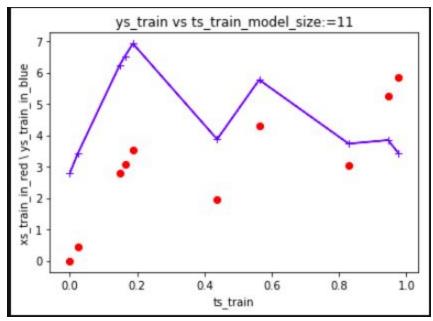
2: Train and test split

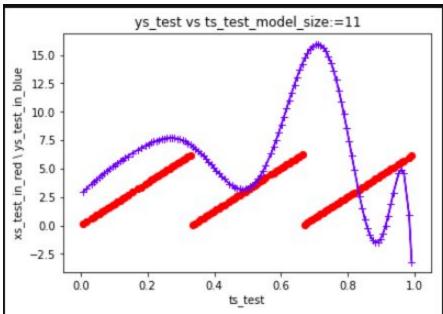


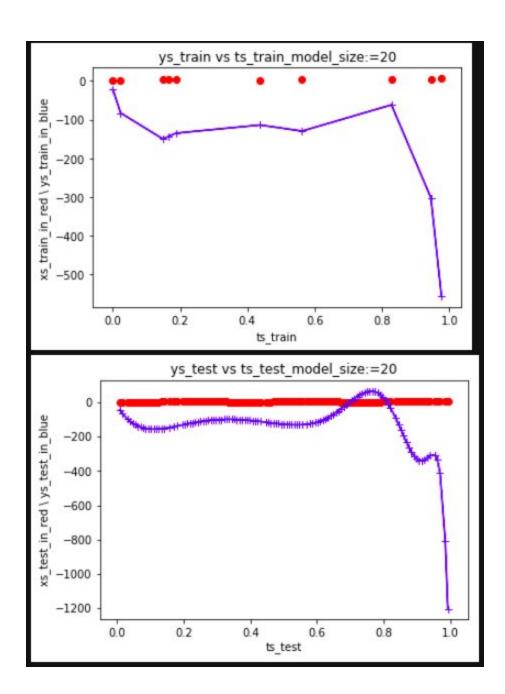
3: lest square method:



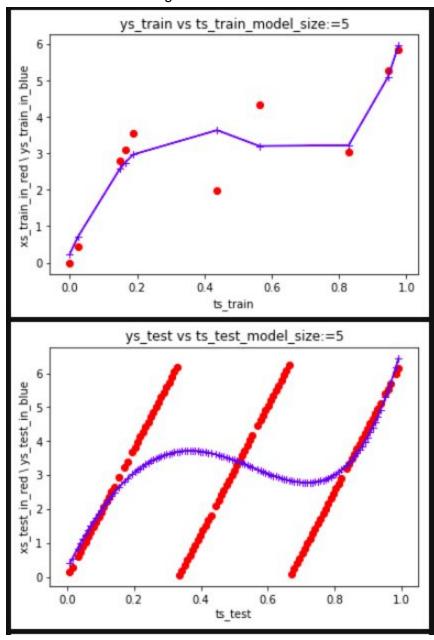


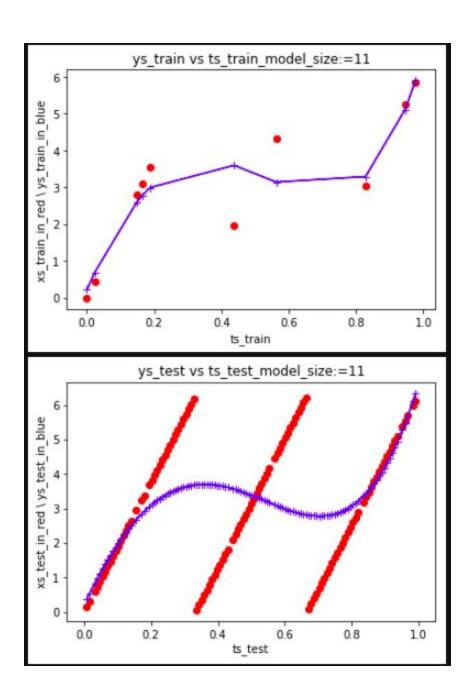


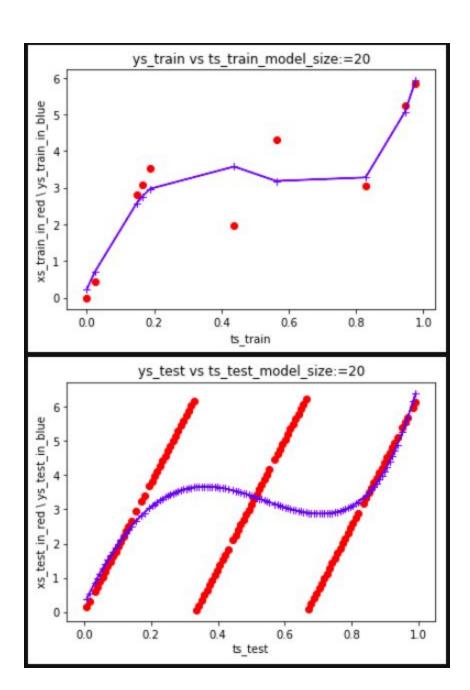




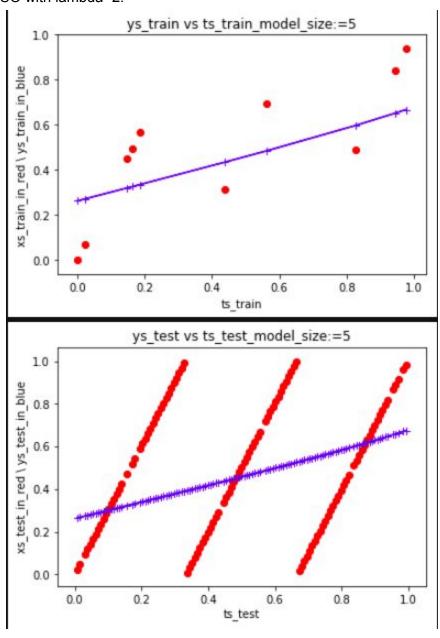
4. Gradient Descent with learning rate=0.01 and iterations=10000:

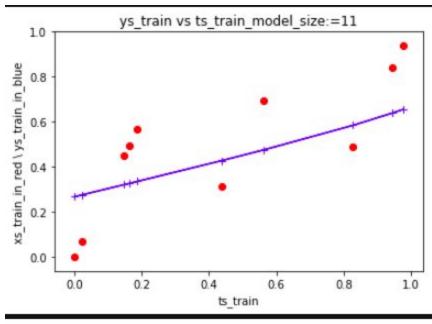


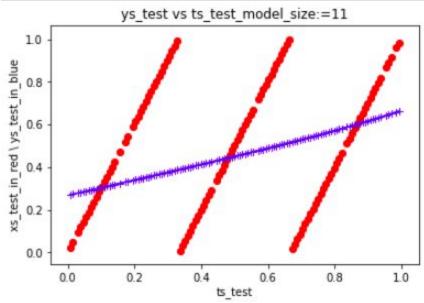


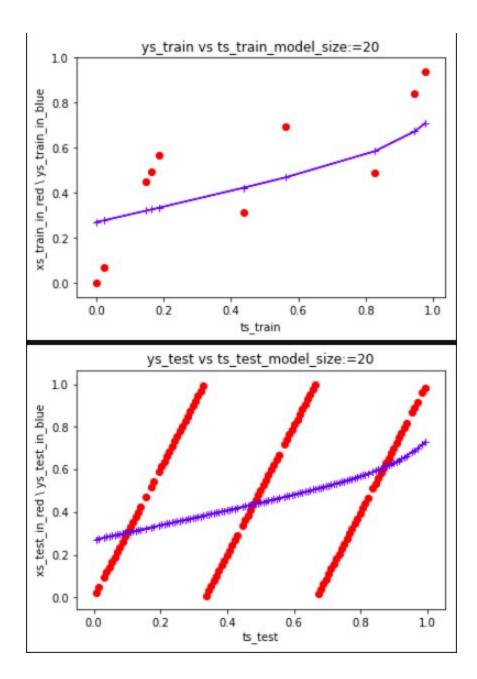


5: LASSO with lambda=2:

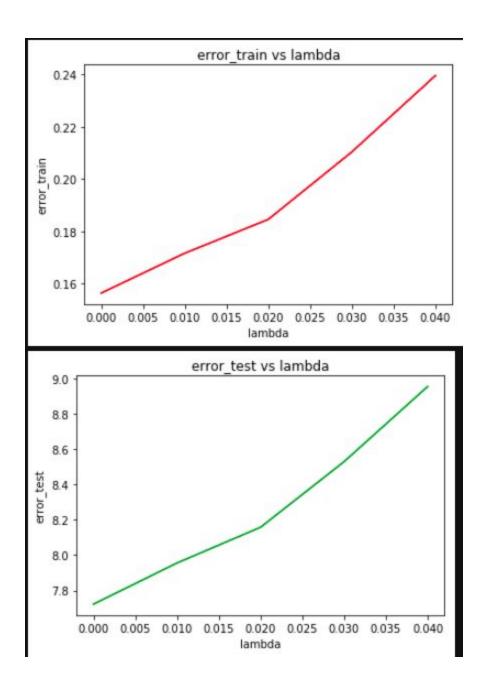


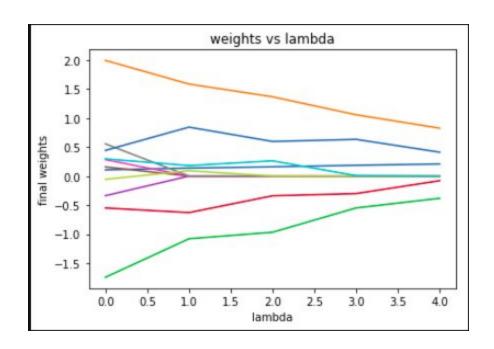


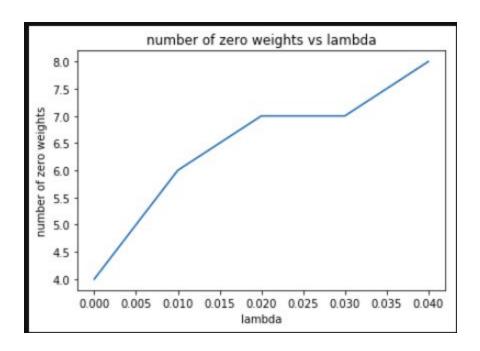




6: number of weights zero:







Until number of zero weights==5

