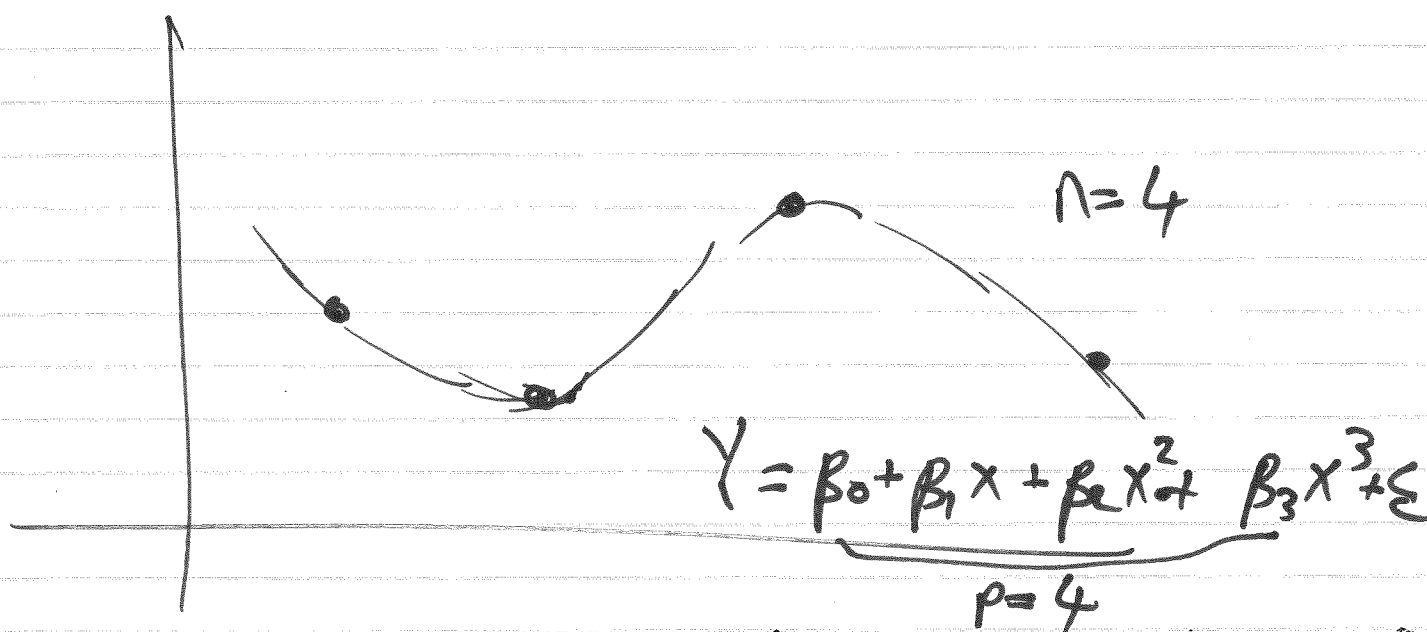
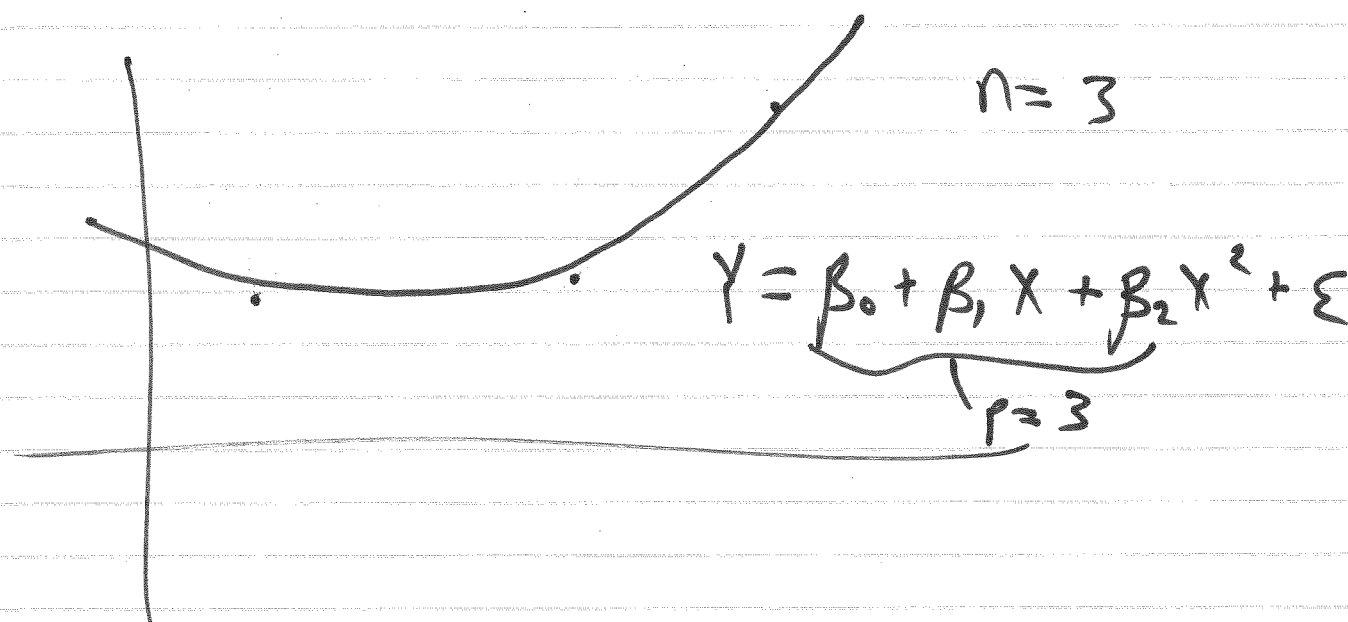
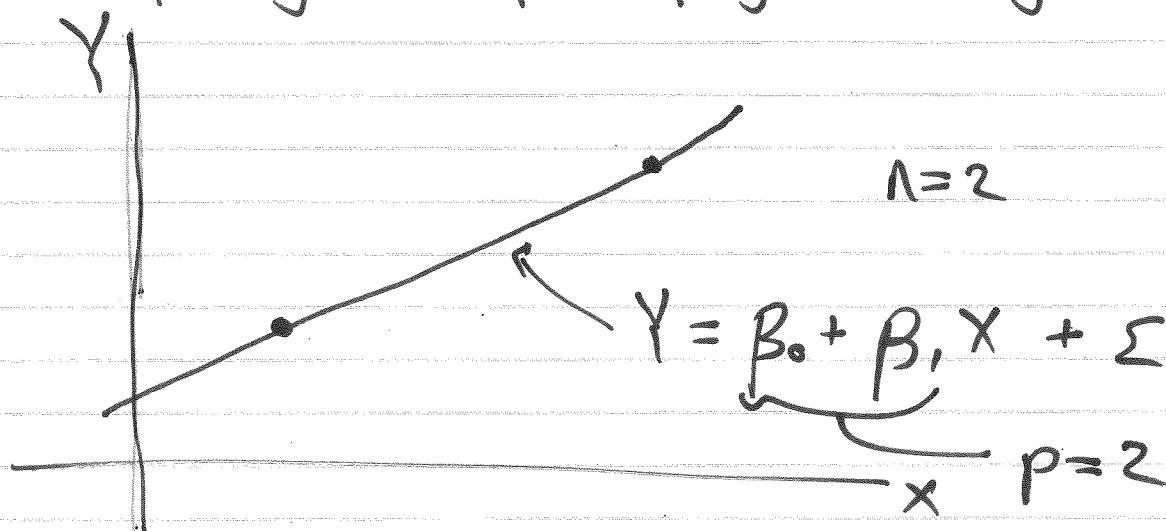


## Over-fitting (example - polynomial regression)



In each case, no degrees of freedom left to estimate  $\sigma^2$   
 in  $\varepsilon \stackrel{\text{iid}}{\sim} N(0, \sigma^2)$