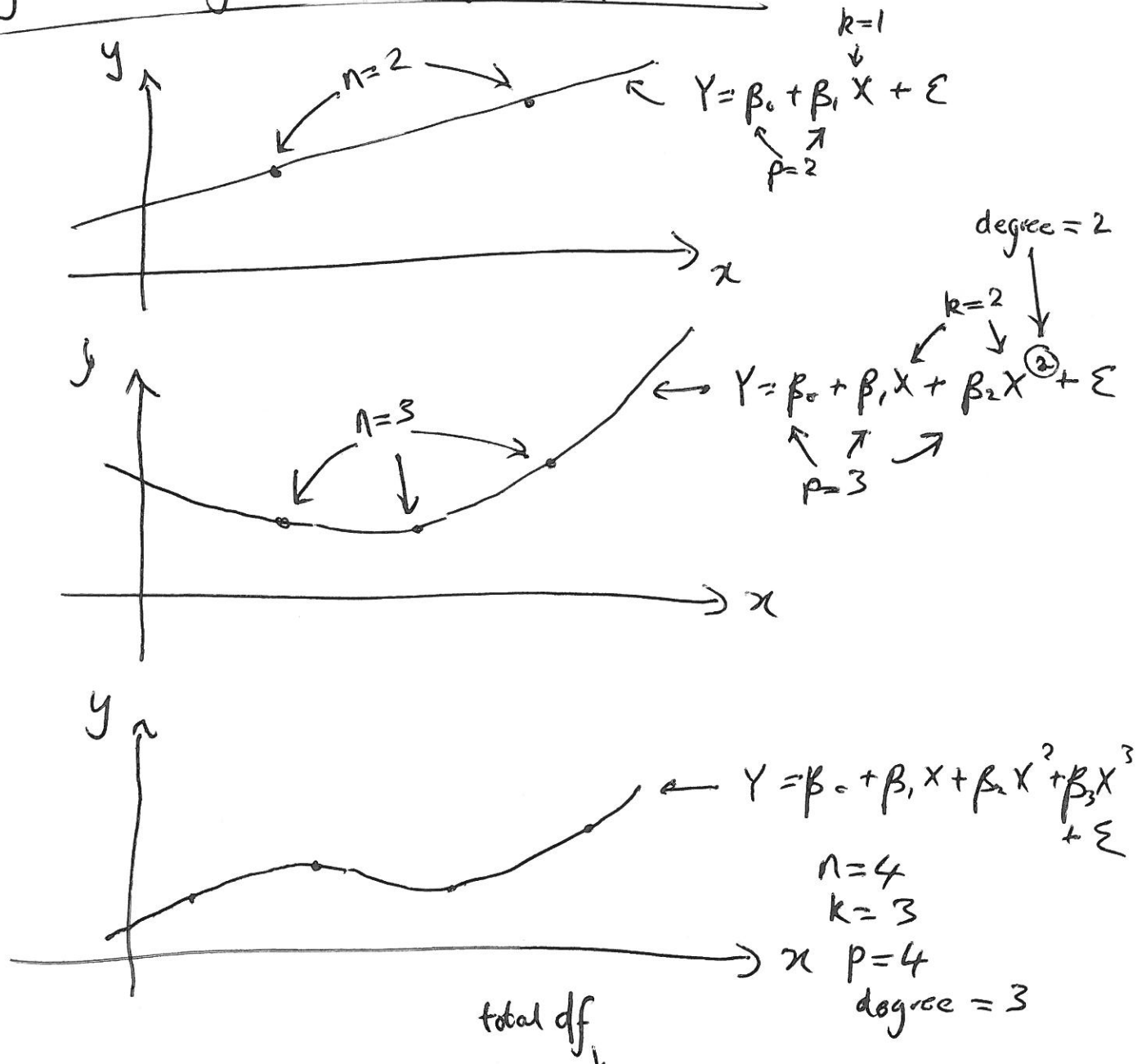


Polynomial Regression & Degrees of Freedom



A polynomial of degree $(n-1)$ will be a perfect fit for n observations, BUT there are no degrees of freedom left over to estimate σ^2 , the variance of the errors, ε .

→ this is an extreme of "over-fitting" a too complicated model

↑
More on this later