(2-1.2) ()ii). [Plots were on the previous page].

Sigma basically represents the neighborhow,
that we take around our target

point. So, a larger sigma implies a
bigger neighbourhood.

For a sigma=1, the neighborhood is
really small, and as we can see the
model is creatiting on the data (trigh
For sigma=100 the neighborhood is
really large and the model is underfitting on the data (High bias).

For sigma=10, We observe that the
model fits just perfectly to the data.

-> Variation of hambde.

Higher the Sambda, more will be the regularisation penalty, and the variance of the model will decrease (more bias).

At dambda = 0.1, the model fits the data just perfectly, but as we increase lambda the regularisation penalty forces the model to decrease its degree of freedom, and hence, for higher lamba's the curve that is fit, by our model is more that is fit, by our model is more that is fit, by our model is