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	rays to estimate the unknown function f^{-1} parametric methods	
	ier to estimate parameters of an assumed functional form than to be an arbitrary function)

1.1.1 step 1 - assumption about the functional form of f

- 1. linear functional form
- 2. non-linear functional form

1.1.2 step 2 - estimation of the parameters

1.2 non-parametric methods

Because we need to estimate the function f, we need more data.

 $^{^{-1}}f$ represents the relationship between the inputs and the output

Our fit will be good, but now we are in danger of following the noise in the data too closely. To avoid this we need to control for the correct amount of smoothness 2

- 1.2.1 step 1 no assumption about the functional form
- 1.2.2 step 2 estimation of f directly

²in a two dimensional plane for example, this control how rough and wiggly the line is