1 Chapter 2

1.1 notes

Notes Here.

1.2 Solutions

1.

(a) With large n and small p, a less flexible method may not use the large amount of observations available. A flexible method would be able to better estimate the true f, just like Figure 2.3 – 2.6. Caution must be taken not to over-fit the data.

(b) With small n and large p, a less flexible method may protect us from fluctuations in the observation due to small n.

(c) A nonlinear relationship between p and the response, may require a more flexible method as in shown in Figure 2.11.

(d) Highly flexible methods would be prone to over-fit (i.e. fit the errors)