- [1] In Figure 1, n=100 observations from a model of the form $Y_t=m_t+X_t$ are displayed. Through eyeballing, choose the order p of the polynomial $b_0+b_1t+\cdots+b_pt^p$ that adequately captures the trend m_t in this plot.
 - (a) p = 0
- (b) p = 1
- (c) p = 2
- (d) p = 3
- (e) none of (a)–(d).

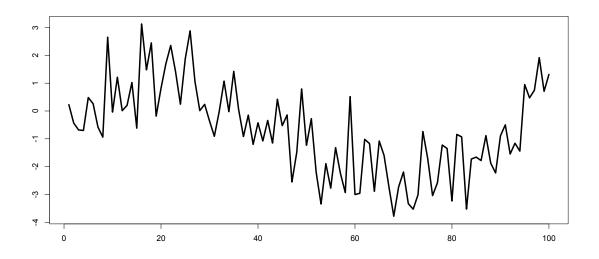


Figure 1: Realization from a time series model of the form $Y_t = m_t + X_t$.