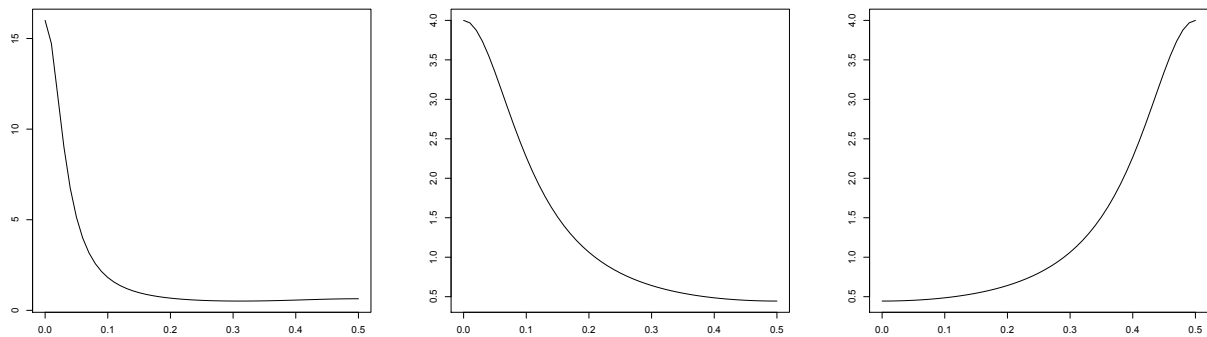


- [1] The plots in the figure show the spectral densities for two AR(1) and an AR(2) process, respectively. Identify which plot belongs to which autoregressive process.



- [2] For the AR(1) processes in [1], can you determine the sign of the AR parameter ϕ ?
- [3] The plots in the figure show the spectral densities of two AR processes of the same order p . Determine p . Decide which of the two spectral densities was generated using only positive parameters $\phi_1, \dots, \phi_p > 0$.

