

- Q2. Consider two models (A) $Y_t = Y_{t-1} + e_t 0.1e_{t-1}$ and (B) $Y_t = 0.9Y_{t-1} + 0.09Y_{t-2} + e_t$, a) Identify each model as a specific ARIMA model. (Hint: write what are the *p*, *d*, and *q* as well as the values of ϕ 's and θ 's.
 - b) Compare models A and B. That is, how are they different and how are they similar? (Hint: Compare the first 5 π -weights and ψ -weights)