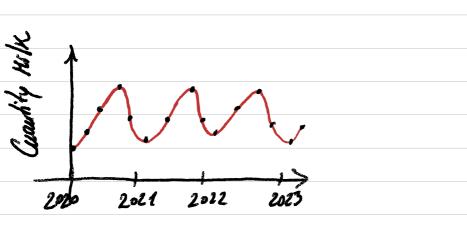
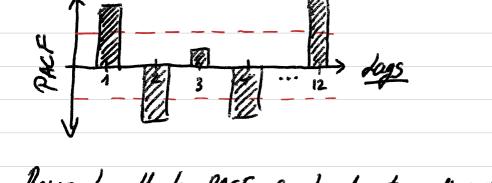
Autoregressive Model (AH)

The automegnesion intuitive idea is so simple, we'll try to predict something based on past values.



Ht = Quantity of mile that was demanded this wouth last upufle

let's draw the PACF cleart:



Remember that PACF graph denote directs

Correlations with the today's quantity. For

exemple: PACF for t=3 indicates the direct

Correlation of the quantity of milk demonded 3

month ago on the quantity of milk today.

Removing the effects of the Intermediate

(In this case He-2 and He-1)

(In this case Ht-2 and Ht-1)

Mt-3 -> Mt

Kh a good model would be:

- It is natural to maintain on the model the lags that are high (positive or negative) because if their directs effects are zero or statistically very close to zero they are not interesting for us.

for if we go bock to our PAFC chart we would relect 1,2,4 and 12th lags

 $M_{t} = \beta_{0} + \beta_{1} \cdot M_{t-1} + \beta_{2} \cdot M_{t-2} + \beta_{4} \cdot M_{t-4} + \beta_{12} \cdot M_{t-12} + \varepsilon_{t}$