Week 4 - Check Your Understanding

 $1.\,$ Longitudinal data are data ordered by time while cross-sectional data are not.

*a. True

b. False

	b. False
2.	A time series can usually be decomposed into two components: Time trend component and and seasonal component.
	a. True *b. False
3.	Time series regression is to model y_t as a polynomial function of the time t and an error. *a. True
	b. False
4.	A white-noise can be considered as an identically independently distributed from a specific distribution $*a$. True
	b. False
5.	A stationary time series has the mean function change over time
	a. True *b. False
6.	A stationary time series has a constant variance over time. *a. True
	b. False
7.	A white noise is a stationary time series. *a. True
	b. False
8.	A random walk is always non-stationary.
	a. True *b. False
9.	In simple moving average, the smaller the value k , the smoother the averages.
	a. True *b. False
10.	Autoregression models of level 1, AR(1), includes both white-noise process and random walk process. $*a$. True