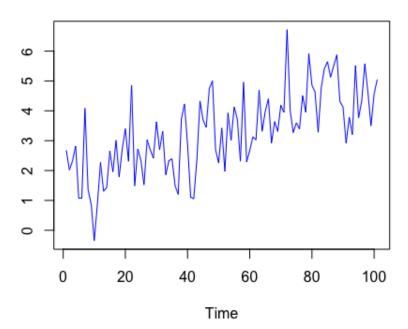
Time plots, Stationarity, ACV, ACF, Random Walk and MA processes Tect, 10 Bottpoca

1 Баллы

1.

Time plot of a time series is shown. What can be said about the stationarity of this time series?

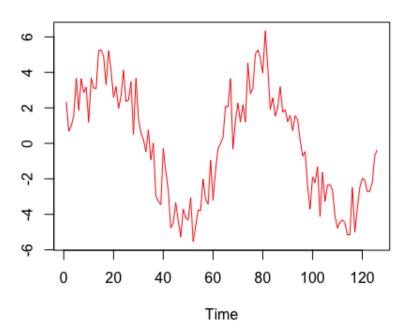
Some time series



- lt is a staionary time series.
- It is a non-stationary time series since there is a fluctuation.
- It is stationary since there is a trend.
- lt is a non-stationary time series since there is a trend.

1 Баллы Timenplots, Stationarity, A.G.V. Random, Walk and MAtproacts ses time Tect, 15cm 19cm 19ca

Some time series



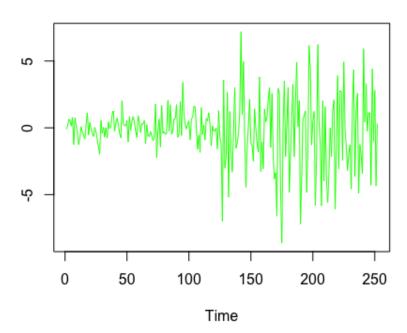
- lt is stationary.
- It is non-stationary.
- It is non-stationary since there is a trend.

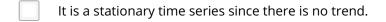
1 Баллы

Time plot of a time series is shown. Select one or more that can be said about the stationarity of this time Time plots, Stationarity, ACV, ACF, Random Walk and MA processes

Tect, 10 Bonpoca

Some time series



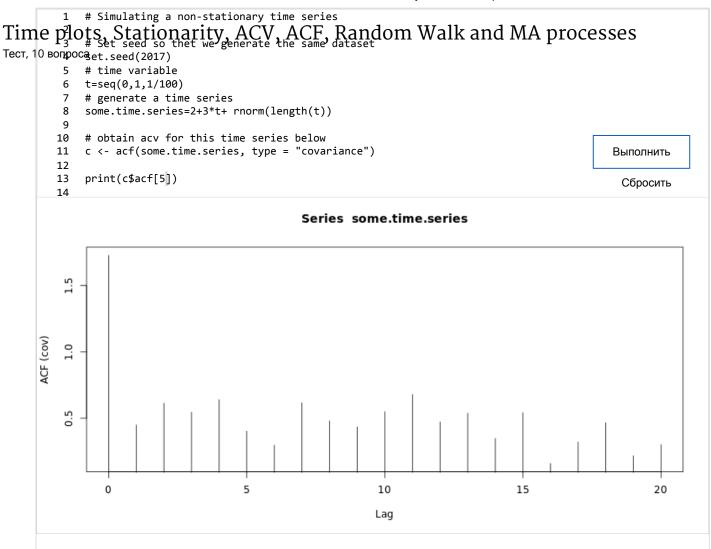


It is a stationary time series since there is no seasonality.

It is a non-stationary time series.

It maybe combination of two stationary time series.

1 Баллы



What is sample autocovariance coefficient c_5 ?

5

0.640

0.403

1.717

1 Баллы

5.

What is the sample autocorrelation coefficient r_0 for any time series?

Depends on the time series.



It is 1.

Time plots, Stationarity, ACV, ACF, Random Walk and MA processes

Тест, 10 вопроса

1 Баллы 6. # Simulating a non-stationary time series 3 # Set seed so thet we generate the same dataset set.seed(2017) # time variable t=seq(0,1,1/100) # generate a time series some.time.series=2+3*t+ rnorm(length(t)) 8 Выполнить 9 # obtain acf of the time series below 10 r = acf(some.time.series) Сбросить 11 r[5] Series some.time.series 9.0 ACF 0.4 0 5 20 10 15 Lag What is r_5 ?



Cannot be calculated since it is non-stationary time series.



1 Баллы

5/27/2019 Practical Time Series Analysis — главная | Coursera Which one or more of the following can be said about the random walk? Time plots, Stationarity, ACV, ACF, Random Walk and MA processes Тест, 10 вопрос®andom walk model relates current value of the time series to the previous value by adding some random deviation to the previous value. Random walk is a stationary stochastic process. Random walk is the accumulation of random deviations from previous steps until the current time. 1 Баллы 8. How one can obtain a stationary stochastic process from the random walk? Using the difference operator. One cannot. 1 Баллы Which one or more of the following can be said about moving average processes?

- The current value of the process now is a linear combination of the noises from current and past time steps.
- Autocorrelation function of the process decreasing slowly without hitting zero.
- Autocorrelation function of the process cuts off and becomes zero at the order of the process.

1 Баллы

Simulating MA(4) process. Time plots, Stationarity, ACV, ACP, Random Walk and MA processes Тест, 10 волиоса_{et.seed}(2^10) z=NULL 5 6 z=rnorm(1000) 7 data=NULL 8 for(i in 4:1000){ data[i-3]=z[i]+0.2*z[i-1]+0.3*z[i-2]+0.4*z[i-3] 9 10 data=ts(data) 11 12 # find acf below 13 Выполнить 14 r = acf(data, main = "ACF") 15 Сбросить 16 r[5] ACF 0.8 9.0 0.0 0 5 10 20 25 15 30 Lag What is the autocorrelation coefficient at lag 4? 0 0.022 Я понимаю, что отправка работы, выполненной не мной, может привести к тому, что курс не будет засчитан, а аккаунт Coursera заблокирован. Узнайте больше о Кодексе чести Coursera Введите Ф. И. О. (как в удостоверении личн Submit Quiz

Time plots, Stationarity, ACV, ACF, Random Walk and MA processes

Тест, 10 вопроса



