## Stationarity Tест, 7 вопроса

1 Баллы
1. For a weakly stationary process, which of the following are true?
The mean function is constant.
The variance function is constant.
The autocovariance is constant.
1 Баллы  2. A random walk is an example of a weakly stationary process.  Уеѕ.  No.
1 Баллы  3. A moving average is an example of a weakly stationary process.  Уеs.  No.
1 Баллы

Suppose you have the MA(2) process: Stationarity

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$$X_t = Z_t + .5 Z_{t-1} + .5 Z_{t-2}, \quad \sigma^2 = 1$$

How many terms in the ACF are nonzero?

- There are no nonzero terms.
- Exactly 2.
- Exactly 3.
- An infinite number.

1 Баллы

5.

Let's think about our MA2 process from the last question.

$$X_t = Z_t + .5 Z_{t-1} + .5 Z_{t-2}, \quad \sigma^2 = 1$$

What is the autocovariance at lag zero? That is, calculate  $\gamma(0)$ .

1.5

1 Баллы 6. Station, a sity er the MA2 example.

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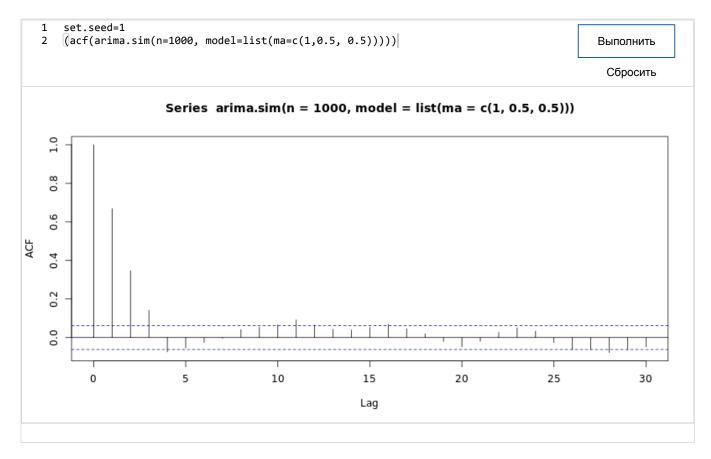
$$X_t = Z_t + .5 Z_{t-1} + .5 Z_{t-2}, \quad \sigma^2 = 1$$

calculate the autocorrelation function at lag 2.

1 Баллы

7

Run the following code to simulate our MA(2) process as shown above. Be sure to replace XX's with the appropriate coefficients.



From your graph or the function output, estimate  $\rho(1)$ .

1

0.531

O.338 Stationarity
Тест 7 вопроса

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