**King Fahd University of Petroleum & Minerals**

**Serial # 0**

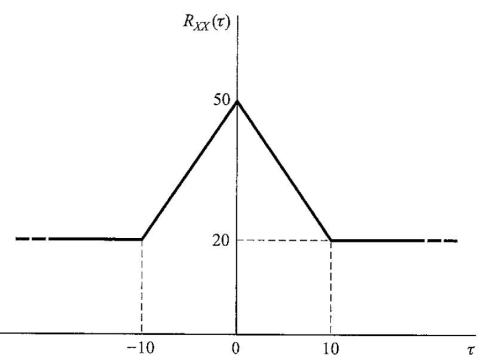
- 1 points for not writing your serial number

Electrical Engineering Department

EE315: Probabilistic Methods in Electrical Engineering (112)

**Quiz 7: Random Processes-Temporal Characteristics**

Name: KEY

For a stationary ergodic random process having the autocorrelation function shown in the Figure , find:

a)

b) =

c)

Statistically independent zero mean random processes and have auto correlation function and .

Find the autocorrelation function of

+1

Note that the means are zeros and because of independence the cross correlation is 0

Good Luck, **Dr. Ali Muqaibel**