

Quiz 6

Student's Full Name and Number:

Question 1: A customer service center in India receives, on average, 4.2 phone calls per minute. If the distribution of calls is Poisson, what is the probability of receiving at least three calls in a minute?

Question 2: Consider the joint probability distribution of X and Y:

		X	
		1	2
Y	0	0.30	0.20
	1	0.25	0.25

a) Compute the marginal probability distributions for X and Y.

b) Compute the covariance and correlation for X and Y.

c) Compute the mean and variance for $W = 2X + Y$.