

- i. How long, on average, does it take a customer to be served at BoA?

 - j. What is the probability there are two customers at BoA?

 - k. What is the probability there are more than two customers waiting to be served?
6. (5.) Suppose that on a particular Friday at BoA, businesses at BoA actually increases so that customers are arriving about every 3 minutes, on average. There are two windows open for service, and it still takes an average of 5 minutes (exponential distributed) to serve each customer.
- a. What is a customer's average waiting time if there is one line and customers go to the first open window?

 - b. What is the total cost per hour if there is one line and customers go to the first open window?

 - c. What is a customer's average waiting time if there is a separate line for each window and we assume that approximately half of the customers join each line?

 - d. What is the total cost per hour if there is a separate line for each window and we assume that approximately half of the customers join each line?