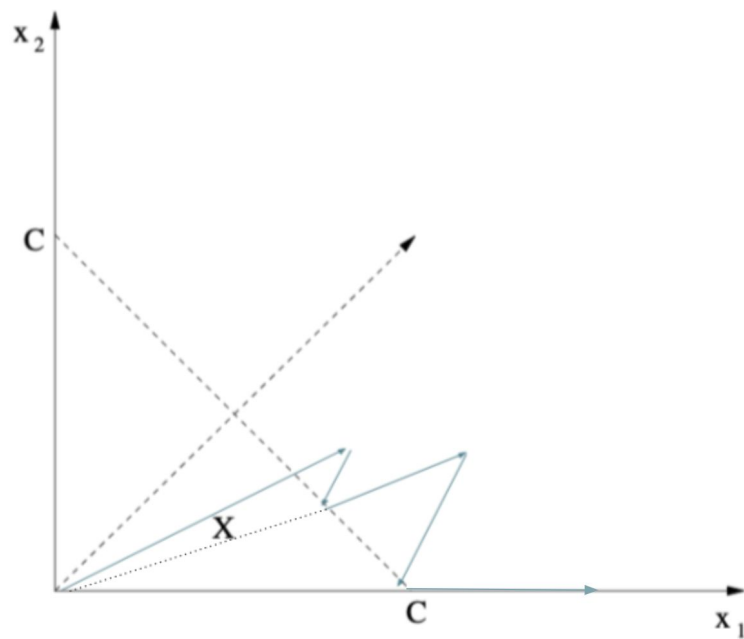
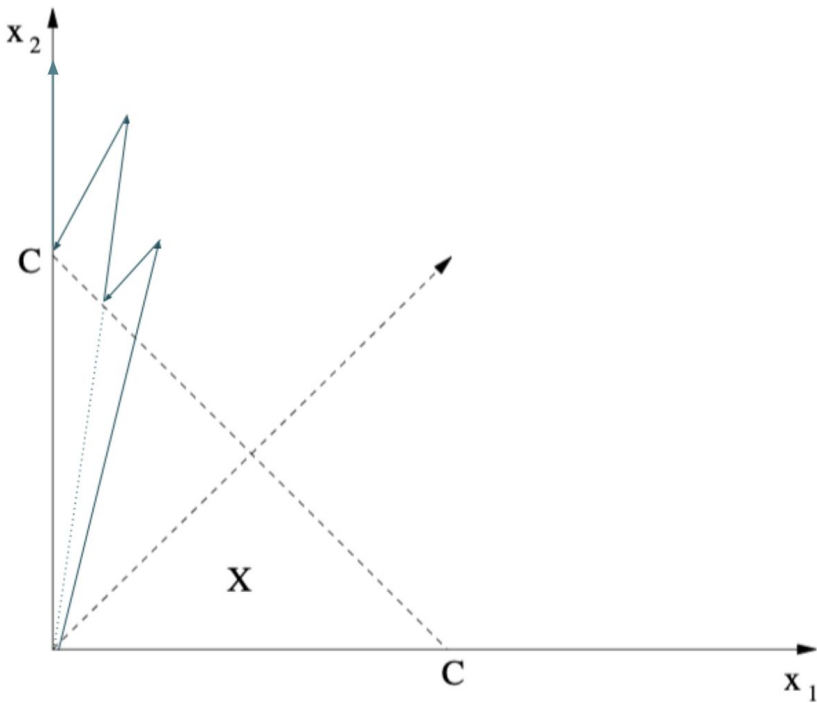


# CSC457 Assignment 5: Question 4 - 7

## Question 4

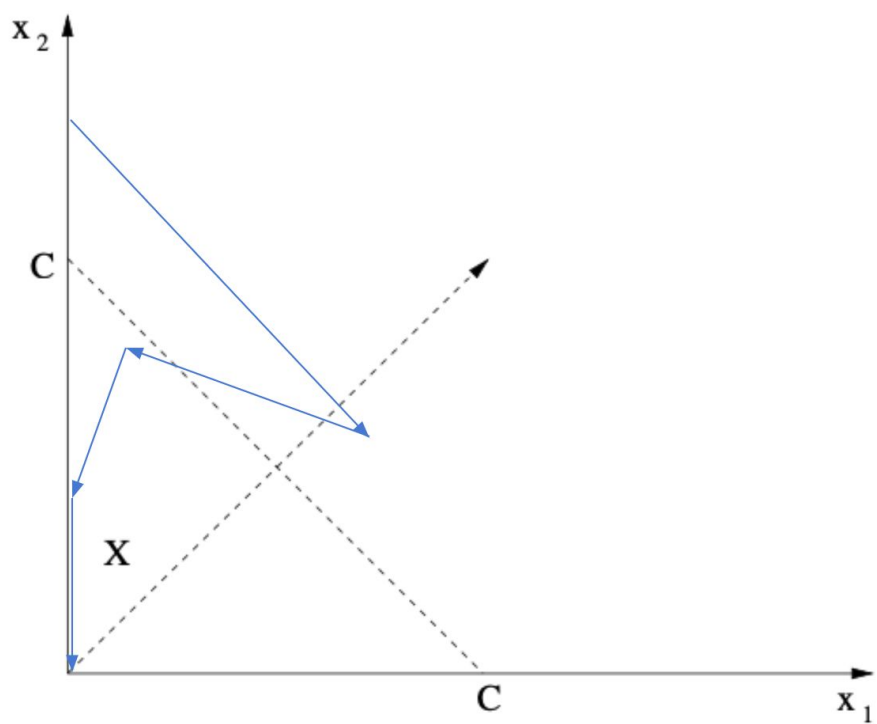
When we only use a two-way handshake what happens is a delayed connection requisition as well as data from an older connection that has been closed will lead to the scenario where the transport layer excretes improper data to the application layer.

## Question 5

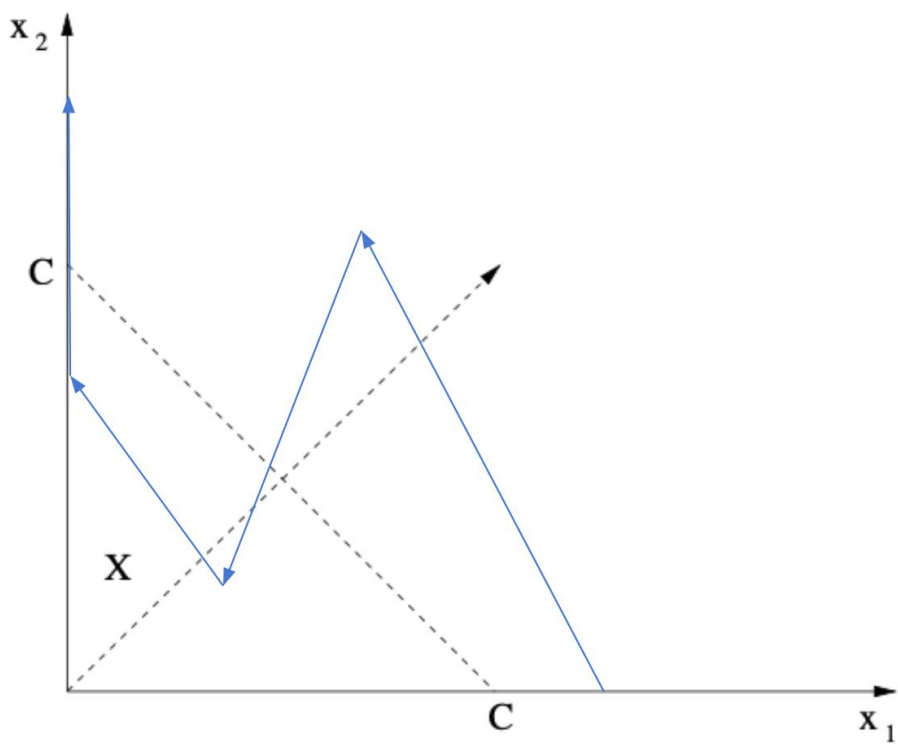


Question 6

(a)



(b)



Question 7

For buffer  $(C, B)$

$$L(r_1 + r_2) \leq C$$

$$L(\beta_1 + \beta_2) \leq B$$

For buffer  $(C_0, B_1)$

$$L(r_a + r_b) \leq Lr_1$$

$$L(\beta_a + \beta_b) \leq B_1$$

For buffer  $(C_0, B_2)$

$$L(r_c + r_d) \leq Lr_2$$

$$L(\beta_d + \beta_c) \leq B_2$$

$$r_2 = 0.7$$

$$\beta_2 = 2$$

$$r_b = 0.3$$

$$\beta_b = 6$$

$$r_c = 0.6$$

$$\beta_c = 3$$