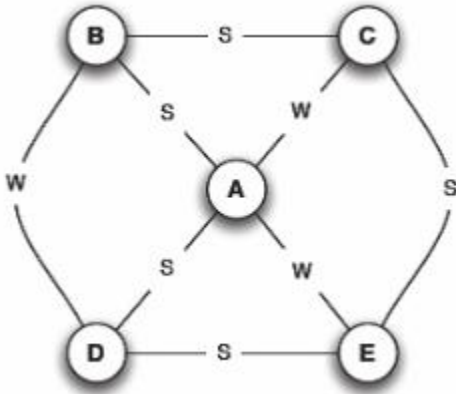Tutorial 2:

Question 1

Recall Strong Triadic Closure Property. Consider the following statements and select the correct one(s) w.r.t the graph below.
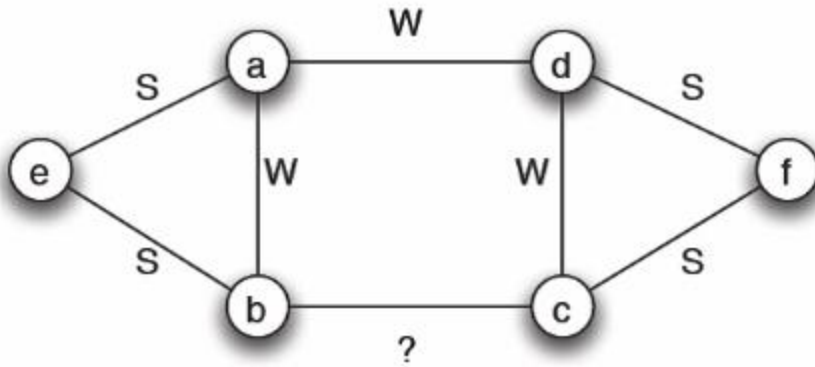

1. Node A satisfies the strong triadic closure property
2. Node B satisfies the strong triadic closure property
3. Node C satisfies the strong triadic closure property
4. Node D satisfies the strong triadic closure property
5. Node E satisfies the strong triadic closure property

1. Correct. Strong ties of node A: B and D. B and D are connected.
2. Correct. Strong ties of node B: A and C. A and C are connected.
3. Incorrect. Strong ties of node C: B and E. B and E are not connected.
4. Correct. Strong ties of node D: A and E. A and E are connected.
5. Incorrect. Strong ties of node E: D and C. A and C are not connected.

Question 2

Consider on the graph below. All edges have been labeled either strong tie or weak tie, except for the edge between node b and c. What kind of tie should the edge between node b and c be such that all nodes satisfy the strong triadic closure property?

W. If it were S, strong ties of node b: e and c. e and c are not connected; strong ties of node c: b and f. b and f are not connected.

Question 3

Consider following graph. Which of the following statements are correct? Here S stands for strong ties and W stands for weak ties.
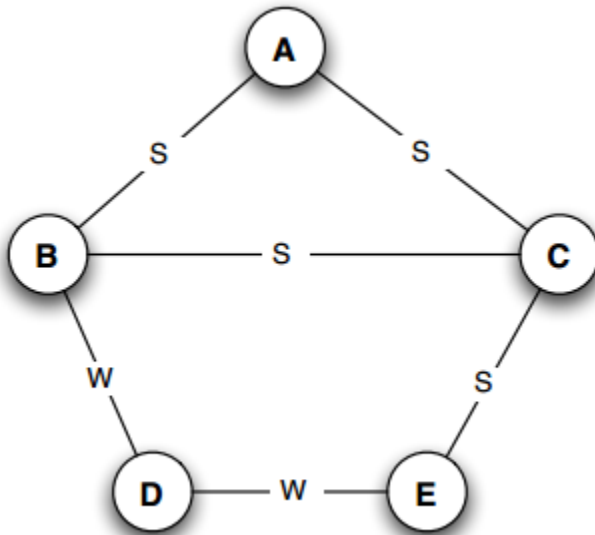
1. Node A satisfies the strong triadic closure property
2. Node B satisfies the strong triadic closure property
3. Node C satisfies the strong triadic closure property
4. Node D satisfies the strong triadic closure property
5. Node E satisfies the strong triadic closure property

1. Correct. Strong ties of node A: B and C. B and C are connected.
2. Correct. Strong ties of node B: A and C. A and C are connected.
3. Incorrect. Strong ties of node C: B and E. B and E are not connected.
4. Correct. No strong ties for node D.
5. Correct. Strong ties of node E: Only C.