1. Calculated Formula: 1: There are [x] computers in a certain ...

Question	There are [x] computers in a certain area. If they are fully connected (i.e. each pair of computers is connected by a wire), how many wires are needed?
Answer Formula	$x \cdot (x-1)/2$
Answer Range +/-	± 0
Number of Answer Sets	10

2. Multiple Answer: 2: Check ALL statements that are true re...

Question

Check ALL statements that are true regarding network topology.

Answer

✅ A. It needs users who do not always access the resource.

B. It needs all users to access the resource at the same time.

✅ C. It allows more users to access a resource such as bandwidth than if each user were given dedicated access to the resource.

D. It needs N resources to serve for N users.

3. Multiple Answer: 3: Check ALL statements that are true re...

Question

Check ALL statements that are true regarding statistical multiplexing.

Answer

✅ A. If the bus topology is used, the number of wires needed grows at the same rate as the number of computers.

B. If the star topology is used, the number of wires needed grows faster than the number of computers.

✅ C. If all computers are fully connected, the number of wires needed faster than the same rate as the number of computers.

✅ D. If the ring topology is used, the number of wires needed grows at the same rate as the number of computers.

4) Give the names of networks in increasing order of geographic size.

PAN, LAN, MAN, WAN

5. Multiple Choice: 5: Given that there are 10 users in the ...

Question

Given that there are 10 users in the system and each user is active with probability 0.1, the probability that more than 4 of them are active is

Answer

A. 0.9984

✅ B. 0.0016

C. 0.0112

D. 0.0128

E. 0.9872