Distinguish, differentiate, compare and explain what is the difference between Bus topology and Star topology. Comparison and Differences.

Differences between Bus and Star topology

S.No.	Basis of difference	Bus Topology	Star Topology
1	Structure	All computers / nodes are connected to a single central cable (backbone).	All computers / nodes are connected to central host directly.
2	Linearity	Bus topology is linear.	Star topology is non-linear.
3	Requirement of Switch	Switch is not required.	Switch is used to connect the computers.
4	Connection between nodes	It has no connection between nodes but connect to backbone.	It has no connection between nodes.
5	Ease of trouble shooting	Easy identification of cable faults.	Difficult when one of the nodes fails; but easy to troubleshoot when the host fails.
6	Easy of adding or removing nodes	Easy to implement and extend. New devices can be added to the backbone or to the existing nodes.	Easy to implement and extend. Only add the nodes or devices to the host.
7	Node failure	Failure of a node doesn"t affect the entire LAN as long as the backbone is working.	Failure of a node doesn"t affect the entire LAN as long as host is working.