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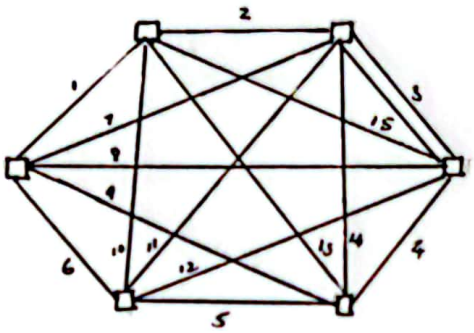
End of Ch #12 Exercises

12. 1) Draw a 6 node fullmesh network (you may draw the diagram, ~~take~~)
How many connections would the drawing require? Does this agree with the formula in the text?
How many connections would a fifty node full mesh require?

sol:) Six-node full mesh canvas:



Number of connections : 15

The formula - number of connections = (nodes) * (nodes-1) /2

∴ 6 * (6-1)/2

∴ 15 connections

∴ The figures matches the formula.

50-node mesh network:

number of connections = (nodes) * (nodes - 1) /2

= 50 * (50-1)/2

= 1225 connections.

13. 11) How many connections are required for 30 nodes to be connected in a full mesh topology.

number of connections = (nodes) * (nodes - 1) /2

= (30 * 29)/2

= 435 connections.