**Quiz 1 – Optical Networks**

Design a degree-2 node architecture (with east and west links), using elements you have learned about (WSSes, AWGs, splitters, etc.), that fulfills three requirements:

* wavelengths pass through this node from east to west,
* wavelengths add to the west link from this node,
* wavelength , incoming on east link, drops at this node.

while deploying

1. only AWGs (no WSS) in the node structure.
2. WSSes in the node structure.

Explain the major differences between designs of parts a) and b).