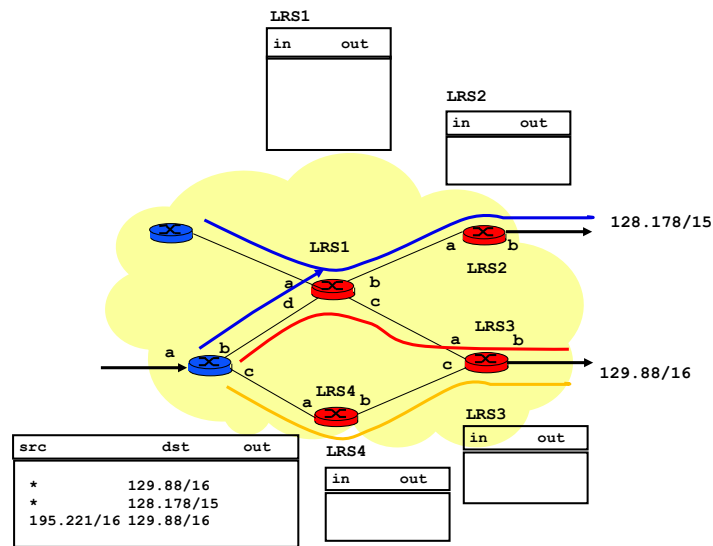# 1 MPLS *(2 points)*

Figure 1: MPLS network

Figure 1 shows an MPLS network composed of two ingress routers and four LSR routers. For the destination `129.88/16`, if the packets come from `195.221/16`, then they must enter LSP going through LRS4, otherwise they must go through LSR1. Fill in the LIB switch tables of these routers that match LSPs shown in the figure.

1 VPLS

Consider a telecommunications operator that provides its VPLS service (*Virtual Private LAN Service*): it interconnects VLAN switches of its clients over a MPLS network. Figure 1 shows the internal MPLS network of the operator and the networks to be interconnected: VLAN1 and VLAN2.

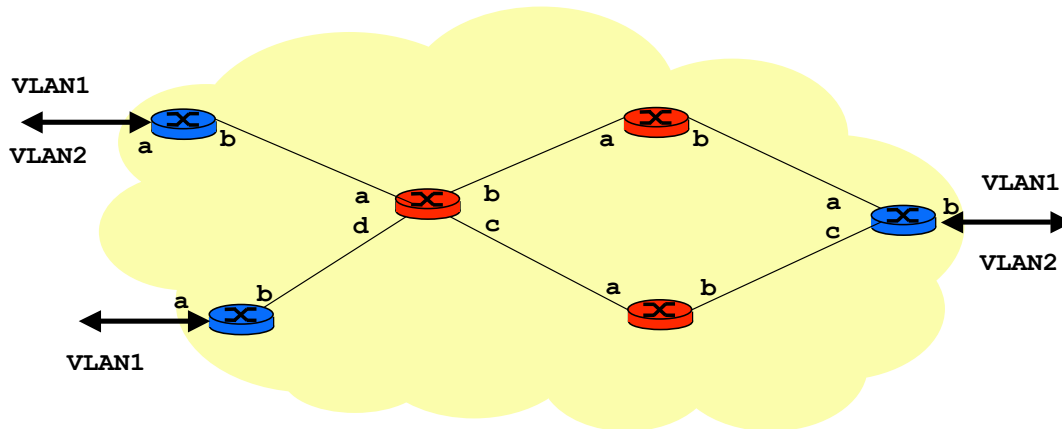**Q.1** Describe how ingress routers work. **Q.2** Give the router switching tables that allow this interconnection.

Figure 1: Example VPLS network