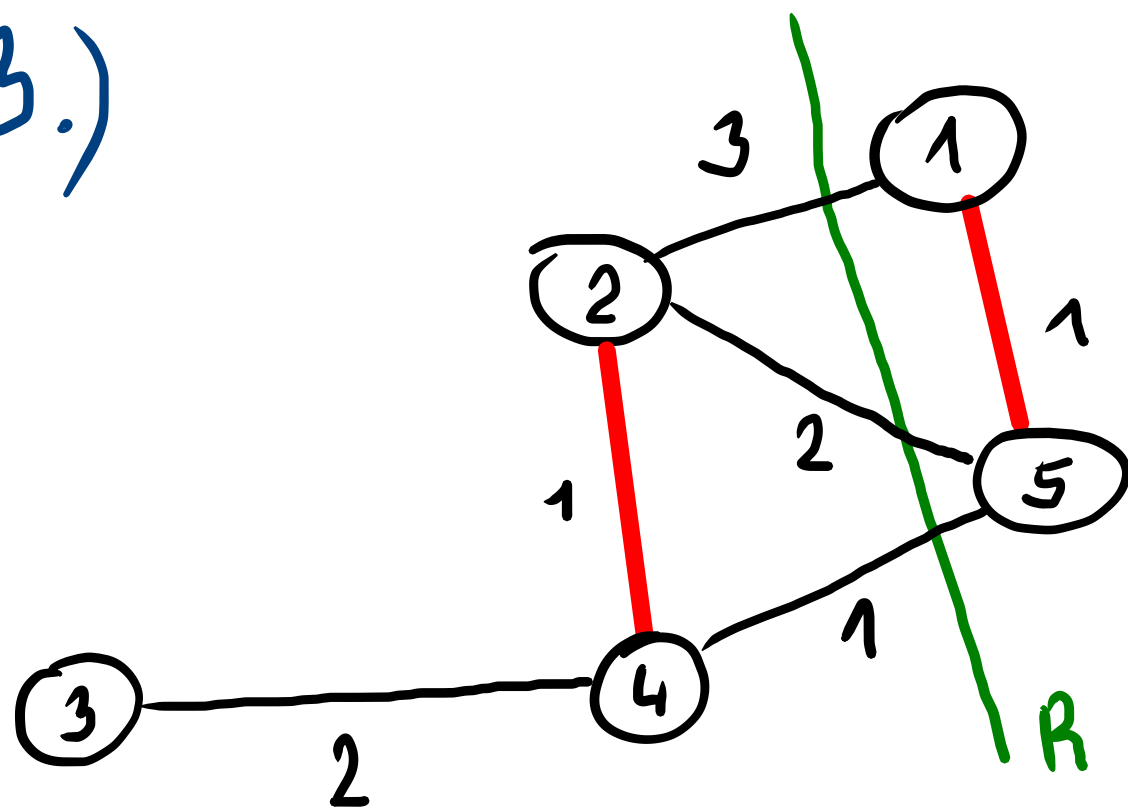


3.)



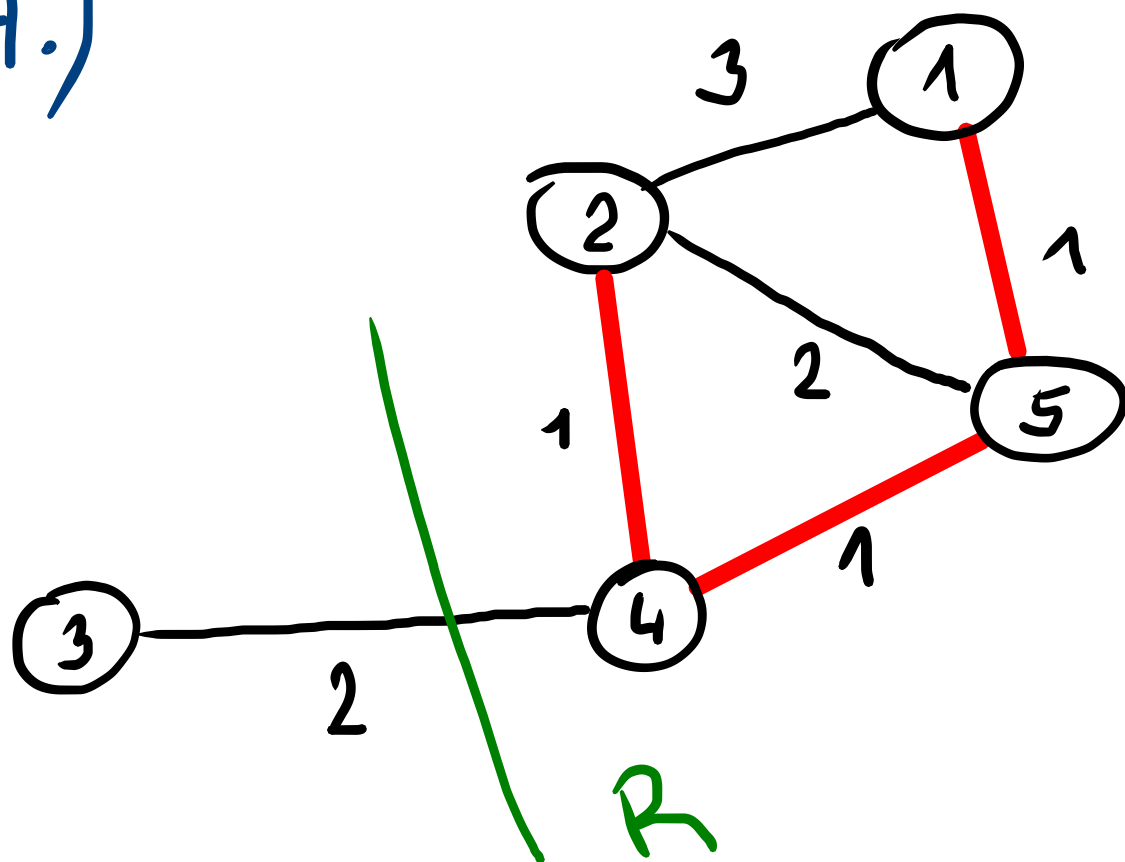
$$A = \{(1,5), (2,4)\}$$

$$R = (\{1,5\}, \{2,3,4\})$$

$$LH = \{(4,5)\}$$

$$A \leftarrow A \cup \{(4,5)\}$$

4.)



$$A = \{(1,5), (2,4), (4,5)\}$$

$$R = (\{1,2,4,5\}, \{3\})$$

$$LH = \{(3,4)\}$$

$$A \leftarrow A \cup \{(3,4)\}$$