

- Let  $G = (V, E)$  be an undirected graph with no *loop*, where
  - $V$ : set of vertices
  - $E$ : set of edges
- For  $U \subseteq V$ , the components of  $G \setminus U$  is denoted by
$$V_1(U), V_2(U), \dots, V_{s(U)}(U).$$
- If  $s(U) > 1$ , we say that  $U$  is a *cutset* in  $G$ .