

Complements of graphs

Let $G = (V, E)$ be a graph

The graph G^c contains the same vertex set, but only contains the missing edges (though not the self-loops), and is referred to as the complement of G .

- ▶ Suppose V_0 is a clique in G . What can you say about V_0 in G^c ?
- ▶ Suppose V_0 is an independent set in G . What can you say about V_0 in G^c ?