

Vocab/notation In a graph G ...

Independent set: a set of vertices where no two are adjacent.

$\alpha(G)$ = max. size of an independent set in G

Clique: a set of vertices where every two are adjacent.

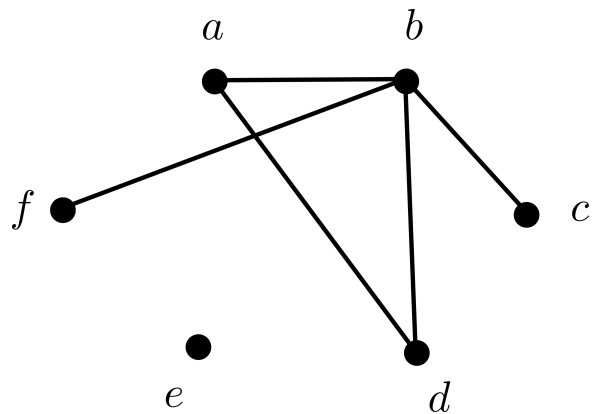
$\omega(G)$ = max. size of an clique in G

Vertex cover: a set of vertices X where every edge is incident to some vertex in X . (a set of vertices that "touches" every edge in G)

$\beta(G)$ = min. size of a vertex cover in G

For this graph G , try to find

- $\alpha(G) =$
- $\omega(G) =$
- $\beta(G) =$



(In general, is there any relationship between these parameters?)