<u>Vocab/notation</u> In a graph G...

Matching: a set of edges with no shared vertices. $\alpha'(G) = \max$. size of a matching in G

Perfect matching (or **1-factor**): a matching covering <u>all</u> vertices in G.

Edge cover: a set of edges that "covers" every vertex in G. (a set of edges $F \subseteq E(G)$ where every vertex in G is contained in some edge in F)

 $\beta'(G) = \underline{\min}$. size of an edge cover in G



Find $\alpha'(G)$ and $\beta'(G)$ for each of these graphs.