

## Terminology, cont.

- ▶ A **clique** is a set of vertices that are pairwise adjacent.
- ▶ An **independent set** is a set of vertices where no two vertices are adjacent.
- ▶ A **proper vertex coloring** is an assignment of colors to the vertices so that no two adjacent vertices are assigned the same color.
- ▶ A **matching** in a graph is a subset of the edges that share no endpoints (equivalently, no two edges in the subset are incident with each other).
- ▶ A **dominating set** is a subset  $A$  of the vertices so that every other vertex is adjacent to at least one of the vertices in  $A$ .
- ▶ A **vertex cover** is a subset  $A$  of the vertices so that every edge is incident with at least one of the vertices in  $A$ .