

Terminology

- ▶ For a given graph G , if $(v, w) \in E$, then v and w are said to be **adjacent** or **neighbors**.
- ▶ The **degree** of a vertex v in a graph is the number of its neighbors, and is denoted $deg(v)$.
- ▶ The **endpoints** of an edge $e = (v, w)$ are v and w .
- ▶ Two edges are said to be **incident** if they have a common endpoint.
- ▶ The **empty graph** has no vertices (and hence obviously no edges).
- ▶ Some people say “vertices” and some people say “nodes”, and these refer to the same thing. (The singular version of “vertices” is “vertex”.)