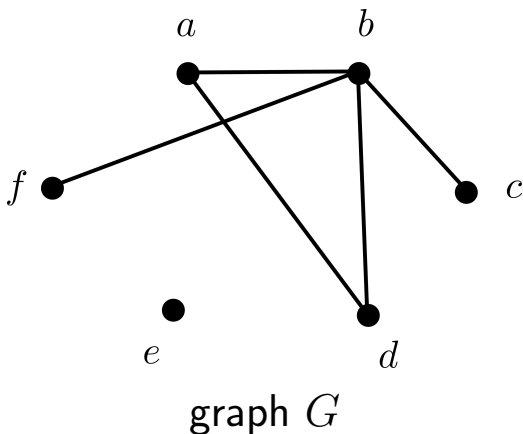


- **Neighborhood** $N_G(v)$ of v = the set of vertices adjacent to v
- **Degree** $d_G(v)$ of v = the number of neighbors of v
- **Minimum degree** $\delta(G)$ of a graph $G = \min\{d_G(v) : v \in V\}$
- **Maximum degree** $\Delta(G)$ of a graph $G = \max\{d_G(v) : v \in V\}$



Can you find these?

- $N_G(a) = \underline{\hspace{2cm}}$ $d_G(a) = \underline{\hspace{2cm}}$
- $N_G(e) = \underline{\hspace{2cm}}$ $d_G(e) = \underline{\hspace{2cm}}$
- $\delta(G) = \underline{\hspace{2cm}}$ $\Delta(G) = \underline{\hspace{2cm}}$
- A graph H with $\delta(H) = \Delta(H)$
- A graph with **one** vertex of degree 3, and **all others** of degree 2