Graph *G* = (*V*, *E*) - where *V* is the set of vertices (nodes) and *E* is the set of edges

Subgraph- A subset of a graph’s vertices and edges

Two vertices are **adjacent** if they are joined by an edge, The two vertices are **neighbors**.

**Path** - A sequence of connected edges

**Cycle** - A path whose starting vertex and ending vertex are the same

Simple path - A path that contains no cycle

Simple cycle - A cycle that contains no cycle in it

Hot potato routing - send packet towards closest of two routers.