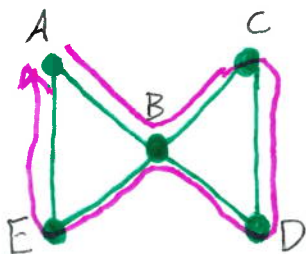


Recall that a **walk** in a graph  $G$  is a sequence  $v_1, v_2, \dots, v_k$  of vertices, where  $\{v_i, v_{i+1}\}$  is an edge for each  $i$ .

### More vocabulary

- **Path:** a walk with no repeated vertices
- • **Closed walk:** a walk that starts and ends at the same vertex.
- **Cycle:** a closed walk with no vertices repeated except the first and the last.
- • **Trail:** a walk with no repeated edges
- ✓ • **Tour:** a closed walk with no repeated edges (this is also called a **circuit**)

Q Which is the following?



A, B, C, D, B, E, A

Can you find an example of each?