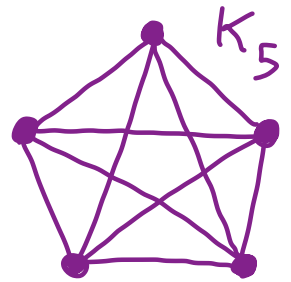


Vocab H is a subgraph of G if

$V(H) \subseteq V(G)$ and $E(H) \subseteq E(G)$.

↖ vtx set
of H

↖ vtx set
of G



Q Which are subgraphs of K_5 ?

(a) C_5

(b) P_4

(c) P_5

(d) K_4

More vocab:

- H is an induced subgraph if it contains all the edges of G that connect vertices in $V(H)$.
- H is a spanning subgraph if $V(H) = V(G)$.

Q Are any of the above contained as a spanning or induced subgraph of K_5 ?