

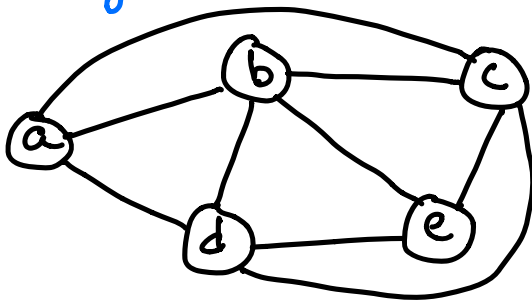
Spanning Trees

What? A set of edges that "span" a graph.

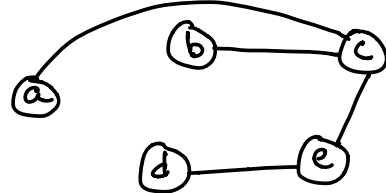
Span? To span a graph means to connect all the vertices in the graph.

Example: A graph and some spanning trees ... or are they?

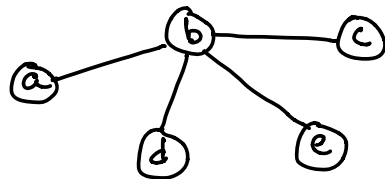
The graph:



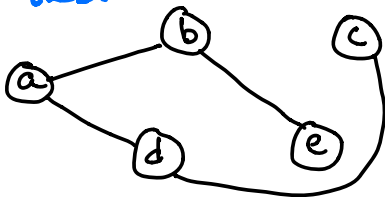
Yes!



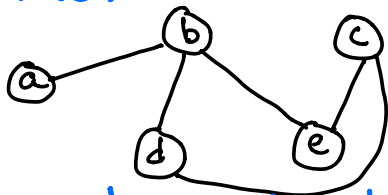
Yes!



Yes!

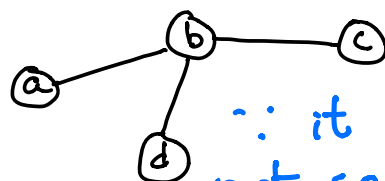


No!



$\therefore$ it is not a tree.

No!



$\therefore$ it does not span the original graph.