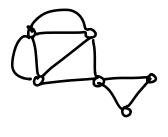
Math 4707 GROUP WORK on Ever paths/walks

Recall that

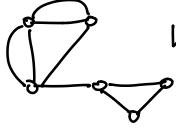


has (many) Enter

e.g.

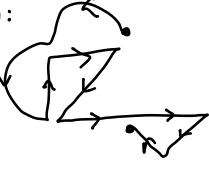


while



has no Enler tour, but does have

an Enler pælh:



QUESTIONS

1) Try to come up with a conjecture that characterizes graphs G= (V, E) having an Enler path, but no Enler tour, similar in spirit to the one we proved for graphs having an Enler Town. Can you prove it?

(2) Consider a directed graph D= (V, A)

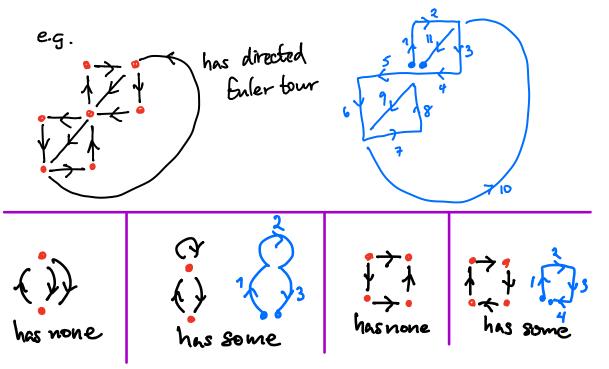
(digraph)

Vertices directed arcs

and directed fuler towns

:= Seguences of arcs that start at and end at a vertex vo, follow the arrows along arcs

and traverse each arc in A exactly once



Can you write down a characteration of which digraphs D = (V,A) have drected Euler towns, similar to the undirected case?