Math 4707 GROUP wORK on Euler paths/walks
Recall that

while

has no Euler tour, but does have an Euler path:


QuESTIONS
(1) Thy to come up with a conjecture that characterizes graphs $G=(V, E)$ having an Euler path, but no Eulertour, similar in spirit to the one we proved for graphs having an Euler Tour. Can you prove it?
(2) Consider a directed graph $D=(V, A)$
(digraph)
vertices directed
and directed Euler tours

$$
\stackrel{\operatorname{arcs}}{v_{1} \rightarrow 0^{2}}
$$

$:=$ Sequences of arcs that start at and end at a vertex $v_{0}$, follow the arrows along ares and traverse each arc in A exactly once


Can you wite down a charactzation of whion digraphs $D=(V, A)$ have directed Euler tours, similar to the undirected case?

