

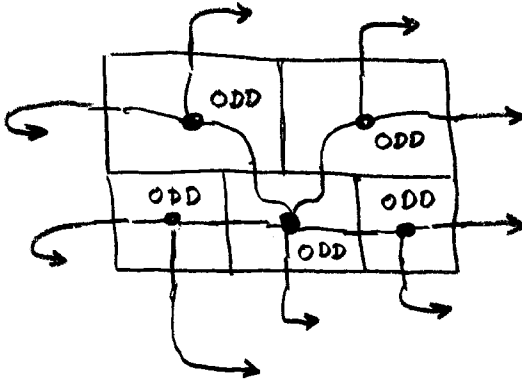
FEB. 9, 2005

NETWORK THEORY \Rightarrow PATHS (ARC'S) AND VERTICES

- VERTEX WHERE AN EVEN NUMBER OF PATHS MEET \Rightarrow EVEN VERTEX
- VERTEX WHERE AN ODD NUMBER OF PATHS MEET \Rightarrow ODD VERTEX

THEORY \Rightarrow A NETWORK CAN BE TRAVELED CROSSING EACH PATH ONLY ONCE ONLY IF THE NUMBER OF ODD VERTICES IS ZERO OR TWO.

GIVEN:



OUTSIDE VERTEX = ODD



SINCE THIS NETWORK HAS 6 VERTICES, ALL ODD, IT CANNOT BE TRAVELED BY CROSSING EACH PATH ONLY ONCE.

WARNING: THE PROBLEM WAS ORIGINALLY DRAWN BY MARC H.

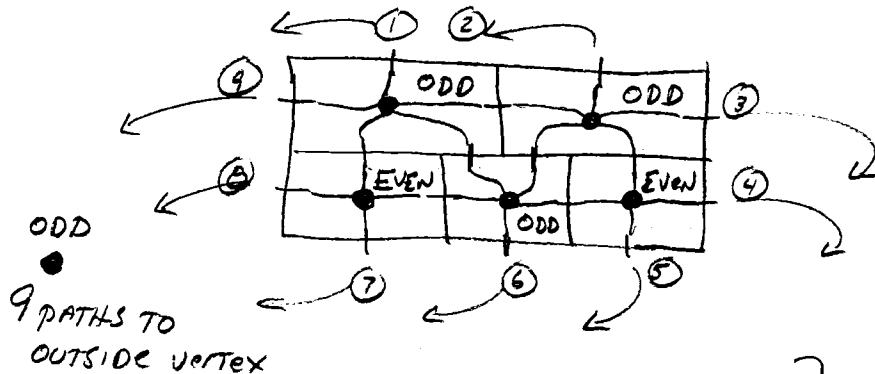
* SEE PAGE 2 :-)

WARNING: JUST BECAUSE NETWORK THEORY SAYS IT CAN'T BE DONE — DOESN'T MEAN IT CAN'T BE DONE 😊 MR. C.

SAME METHOD - SAME RESULT 2-10-05

UPDATED DRAWING (After talking to MR. VINES! Sorry Marc!!)

THE METHOD TO DETERMINE IF THE PATHS & VERTICES HAVE 0 or 2 odd vertices REMAINS THE SAME.



4 ODD Vertices } \neq 0 or 2 odd
2 EVEN Vertices }

\therefore NO SOLUTION