Leonel Garay CS-225: Discrete Structures in CS Homework 9, Part 2

Exercise Set 10.1: Problem 2

1: Just a walk to One repeated edge, start and end point not the same 2: Its a simple circuit to no repeated edges, points are the same 3: It's a closed walk to One repeated edge, same end and start point 4: It's a simple circuit to Only first vertex is repeated start a trial to no repeated edges, repeated vertex 6: It's a trial to no repeated edges, no repeated vertex

Exercise Set 10.1: Problem 9

<u>B</u>-

Vertex

Degre e

All vertices G have even degree. G has Euler circuit.

Exercise Set 10.1: Problem 15

·Graph G has Euler circuit when G is connected and all vertex have an even degree Thus the graph has an Euler circuit rzy xw yuzsuwu tsr

Exercise Set 10.1: Problem 20

No Euler from u to w. u & w have odds, but the vertex e doesn't have evens.

Connected, degrees of υ \$ w are odd, other vertices are even: It has an Euler path $\upsilon-\omega$