8:2c page 396-397 review 1	16-21 all	Exercise	29-41	oda
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- (16) An E-ler cycle is a cycle in a graph that includes all edges and all vertices of the Graph
- 1) The necessary and sufficient conditions that a graph have an Exter cycle is the graph must be connected and every vertex has even degree.
- (B) example of

 Euler cycle

 A=B=C=D

 A

 B

 C
- 19 not Ever cycle
 any non connect graph or Any graph with at least one vertex
 of odd degree
- 20) every edge touches two vertices. ... number al edges = \frac{1}{2} \text{ Edegree of Vertices}
- Ves , since ¿Zal edges is an integer, the sum of degrees must be even. odd vertices must come in pairs odd+odd=even

exercise
(29) connected à every vertice has degree 2. Yes Eller cyde

3) no Eller cycle un how degree 3, so does 1/2, 1/6, 1/7

33 Yes

35) If n-even 10-odd when n is even 12. When n is even 12. When n is even 12. Kn has an Eller cycle 12. N-1 = even 12.

no Elir ayde degree is n-1 9.2c exercise continued.

(37) m=n=2 or m=n=1

(39) vertices at old degree: Le - 2 vertices found

(41) dabcebdehydfgjhi

(43)

(43)

(43)

(44)

(45)

(47) true - see book for proof

chapter 8 - 02c