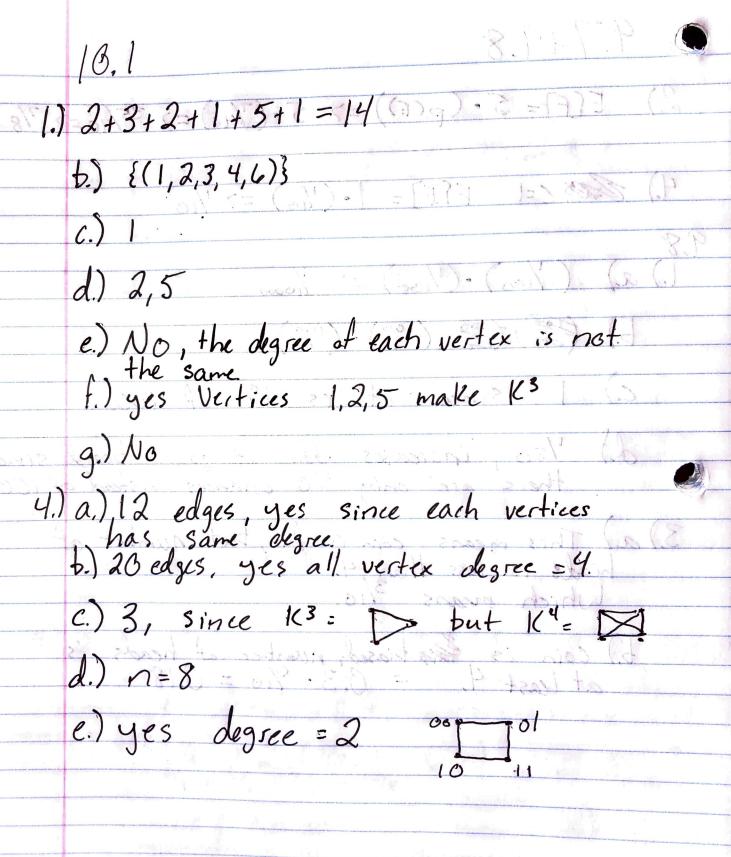
Homework



Homework 10.2+10.4 13.4 a.) ab L) Altera is Enter enough: [(A, C, C, a), B, 2.) a.) Edge = 3 Vertex = 1 t.) Edge = 5 Vertex = 3

7

9

Homework

13.4+13.5

4.) a.) If they are 2 edge Connected, the graph can be drawn, for example, like this.

12 14 1

2) a) Edge = 2 Vertes = 1

S vielus 3

era b

with this graph we see it we take any 2 edges off, it separates. Thus every pair is 2 edx connected

b) yes it is transitive since if there is a walk from v to w, then there is a path from v to w.

c.) No since it could not be regular and if 2 vertices have 2 vertex connection, then others could still be more or less.

10.5 1.) a) Here is Euler circuit: {(a,b,c,d,e,a,c,f,d,a)}

b.) Not a Euler circuit since some vertices have odd degrees: b, f,

	Homework			
	16.6+16.	7	8.01+5.	
	a.) m,h,l,p	1.7	HoonH	(.0 (.2
0	b.) g, f, e, d,	a, b, e) 11115	1170011	(.)
7	c.) j,q,n, K,	e, a, b, c	den	
	d.) 4		dance.	
70	e.) 5 f.) m,e,d	Vees mon Sis	•	(.) (.)
	g.) h	1		
	100	N _n		(.)
9	h) 1,16 cm		issay to()	1.6
13.	7 1.) a.) <u>0</u> 0 × 0 Leaf	X X O X Leaf	OOX Not-leaf	(still ends in O winning)
	b.) 0 8 x × 0 x Leaf	××	OBXX XOX Not-lea	

Homework 13.7+16.8 2) a) 111001111 £) 11000113111101111 (1) jigin, K. e, a, b, c c.) den d) dance 1.) a.) Poes not exist since degree only = 11. d.) Not possible. Sever vertices = at least seven edges. e.) Not pare possible. The tree must have leaves and leaves have degree 1. 2) almost be n-1, since it could be all leaves except the root. Ract (All vertices except the root are leaves.

Homework

[0.8+13.9]

5.) a.) If man-1, then say n=5, this means m is at most 3. This shows

We can't connect all vertices which means it is not connected.

18.9

1.) a.) {(f, i, h, e, b, g, c, a, d)}

b.) {(d, f, b, i, h, e, a, c, g)}