

SASE CASE ASSTANMENT 1 COLOURED CLE-C CLE-C COLOURES CLE-C GRACE CASE SASE CASE A 1-vertes graph has may degree of al most k is (kt) calve N= 1 A 1-vertes graph has may degree O & is 1-colourable. A 1-vertes graph has may degree O & is 1-colourable. A 1-vertes graph has may degree O & is 1-colourable. A 2-vertes on (n+1) vertes graph with man degree of this graph of the connection of this graph of the colour from not the colour from not the colour from add back vertes 'v' the can assign 'v' a colour from set (k+1) colourable. Now add back vertes 'v' the can assign 'v' a colour from set (k+1) colourable. Now add back vertes 'v' the can assign 'v' a colour from set (k+1) colourable. Set by (k+1) colourable. South ableat one of the (k+1) colours is still available Law ableat one of the (k+1) colours is still available Claromatic no. obagraph will not exceed by more than man degree of vertices in a graph.
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Ē.	Phys. Chart
7	ourable it
	all edges e E one such that e is of the printer
	of bipartite graph -
	of graph are partitioned into two disjoints set or minimal true bertices of same set are adjacent.
	Suppose on has (at least) one odd cycle c
	$C = \{V_1, V_2, \dots, V_D\}$
	Without Loss of generality: Let 7, e. A. 3+ bollows that v, e. B. 4 honce
0.00	0 1 5
	VK 6 5 A
10 M 10 M	
	So VAVI E E which contradicts the assumption
	: by is bipartite & thus has no odd cucles
100	(s) is bicolourable if & DNIY if it has noded equili
	Councy Chiny Loundon



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-00	the path
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-	When C has no chord, Gracia a cycle. So let UV be a chord of
7	C. Then UNI is one too, because UCVUCIVIR Hamilton
-	-wian path of bilewise, unv is a chord of c (where un
	denotes the successor of 11 on C and u-Distly successor
	of u-). And if the langth of ulv is aftered bur, un
	Sandi
63.	wian noth u (v-u-v-C-1) u-uv and the lack
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	when I has a chord up of length two, let v=u-(=w-).
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	bollows that is adjacent to every verter of la. But
10	then is is complete, because www is a chord of length hos
	0
	6) Cis odd; Umprever, every odd thord must be present
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	C.		-	1		₹ ;	0	0	=		412.	5) - 1	316	ξ Q	0	6		53		7.4	P.,		-	*	·	-	9	0	2			The same
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Centry Page Date:	That Circuits	26,623	45/15	12	\$ 62,62, 64, 65 }	50,	1	6, 62 63 64 65 66 62	0 0 0 0 0 1 1 7 = (2 0 1 1 0	177000	4000000	5 0 1 1 1 1 0 0	61101100	T T 0 1 0 0 1 0	61	٥	2 0 1 0 0 1 0	2	7 0 7 0 7 0 7					Connot thin bounds
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	É			(3)												in the latest and the							

Gentry Day:	. A(A) = 0 (D) b	MENDERS THEOREM BASED	×		2		1	Verken distaint pathu = 3	ge, Dink	N		Verka cut = 3 (by removing w, 1,2)	יייייייייייייייייייייייייייייייייייייי	This graph satisfies Menger's theorem.	2	Scanned with CamScanner
L	(h)										1 1 1 1					

