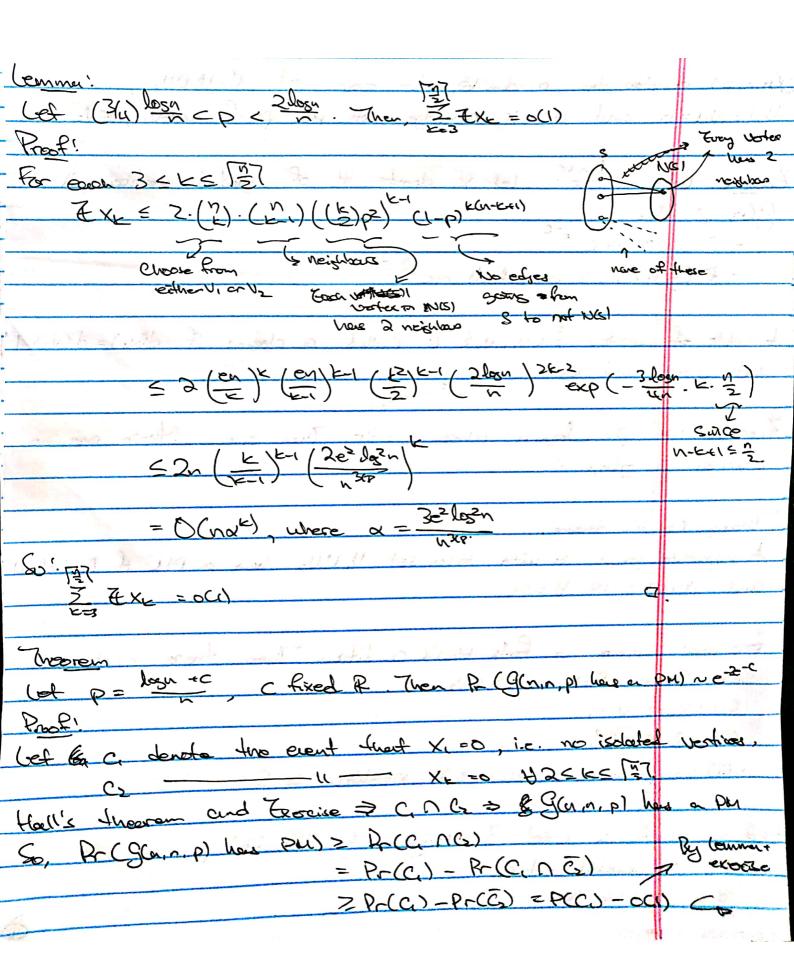
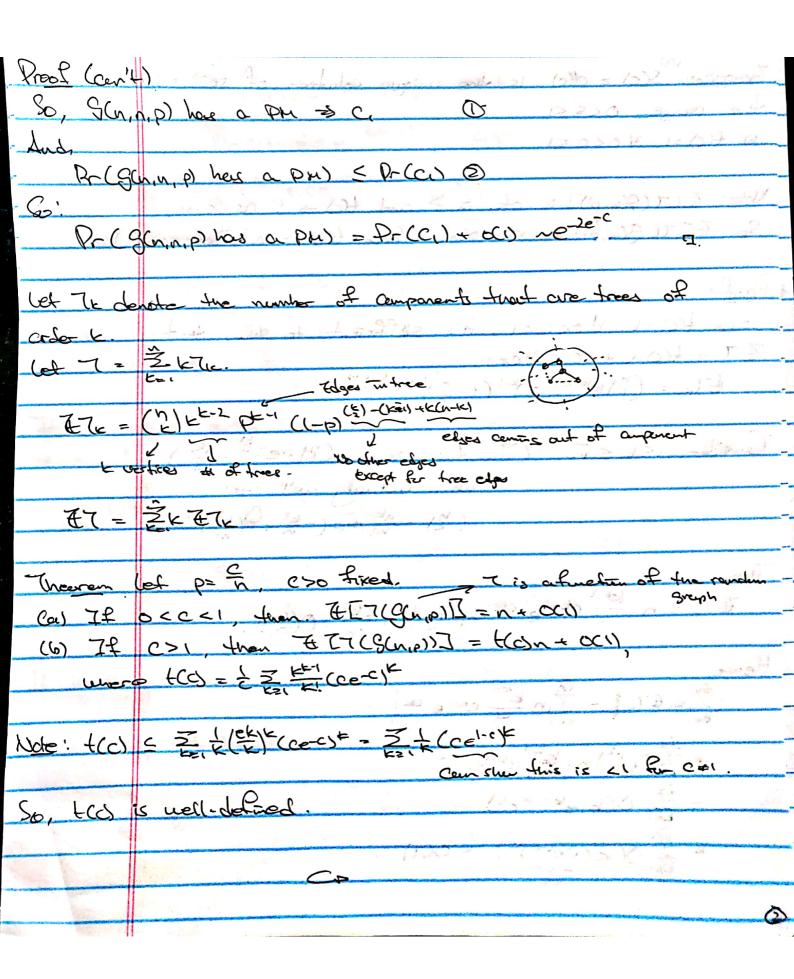
749-Coloums	Random. Jan 20th
Sunpl de	notes the rendom topartite grouph with U=U,UUz
10,1=10=1= r	and us is an edge with prob p for well, well?
Zvercise: let	p= lonec let x denote # of isolated vertices in
Q(10 to a)	
- D(X=	n,n,p) is auncoted) re-2e-c
- 7 (3)	Minibi o Comestos)
A triple of	vertices & u, u, u, 2 is could a cherry if d(v,)=d(v,)=1
and y,~a	and your water work to the state of the stat
Exercise'. Let	prologin who c>3/5. Then a as there are no
Cherries in	
7.	ell's theorem)
A lacontita	grouph Guth vertex set U, UUz how a PM if W, L=W21
	1 > 18 A 8 = 1.
A. T.	
Exercise!	eppose Ge Reils Hall's andition. Then, there exists and
Ci) NCS)	
(;) (5)	The way have been been and the
Ciii) Every	vertex in N(s) 22 neishbors in S
	$\frac{1}{1+1} = \frac{1}{1+1} = \frac{1}$
(ef X/c dene	te a k-set 8 satisfying (i), (ii), (iii) isdaeled vertices
The second secon	change (

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Texercise: S(c) = ct(c) is the unique solution of se-s = ce-c in the range ocs <1 (B) t(C) >1 YOCCEI Note: ZIT (S(n, p)) I is cf. in P and t(c) -> 1 as c->1 So, ITT(S(n, \$1)] = n + o(n). (Since t(d) = n + some enon") Proof. Since tool Hocce, it's sofficient to show that 77 = +(0) x + 00) Hox. (1- c) kn - k00+3)+1. Consider ISKSTR (Ju this vange (2) ~e- 12. nk uh actually we'll use! (N) = NE emp (- Ez (E3)). - TETE = n. (ck-2) ck-1 e-ck exp (-k2 ck2 + O(x)). , Hense, 12 KTETE - Z.n. Kol ck-1e-ck = 2 N(L ~E-CE~E) - \$ 0(k.ek-ckck) = 2 O(k(cer-c/k) = O(1).

