

D) belief of role 1

D(XI) = Z P(XI) M21(XI)

= Z P(XI,YI)M21(XI)

Messyefring messyefrin X

D) P(XI,Y2,Y3,Y4,YI)

= P(XI,Y2,Y3,Y4,YI)

edge 4-2

= P(XI,Y1) P(XI,X1) P(XI,Y1)

= p(x1/1)p(x|xx)p(xx|yx) p(xx|yx) p(xx|yx)

= p(x1/y) ege 2-3 = p(x1/y)) p(x1/x) m== my, x/x, x/x, == 2-4

= b(x1/31) W51(x0 \frac{5}{5}.

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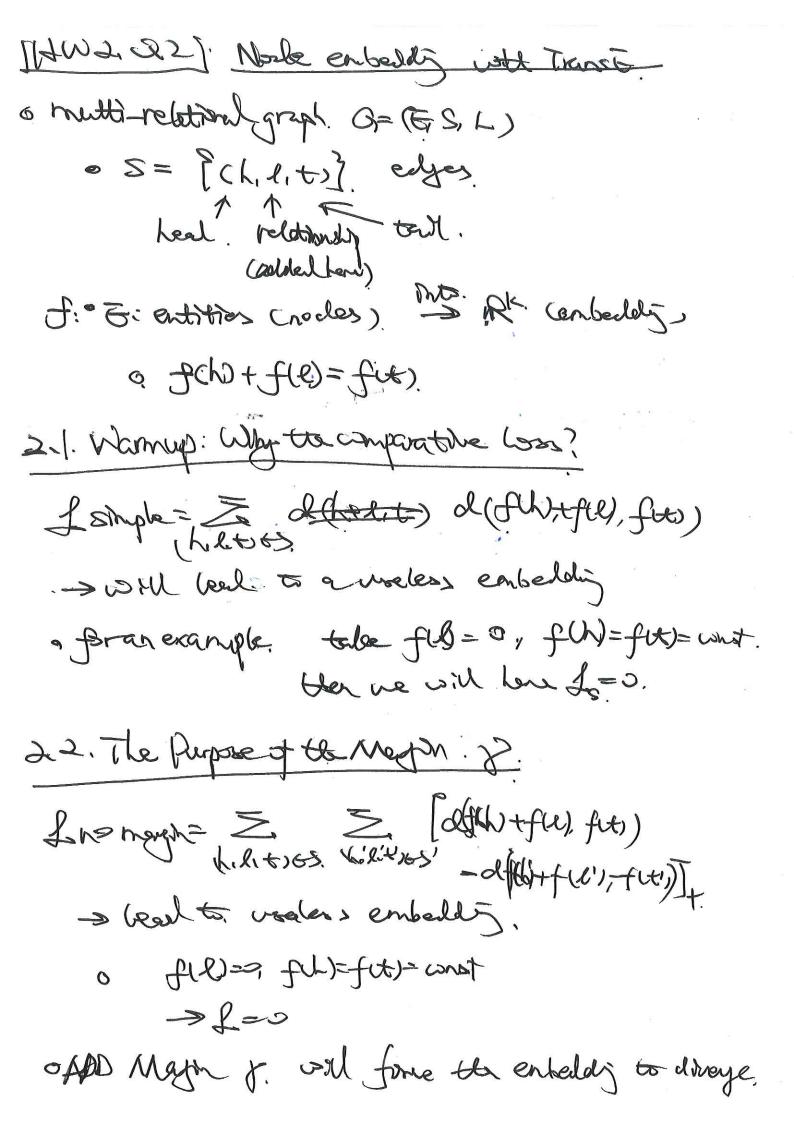
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e sa ^{eg}a

 $\tilde{z}=-\frac{1}{2\pi}\nabla^{2}\tilde{z}^{-\frac{1}{2}}\tilde{\chi}^{-\frac{1}{2}}=0$

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a Trans & normalises cuey estring embeddy to have unto byth.

> as we are calculated dottence of not normalized, we will shoply have embeddy's all conveyes to zero.

219 Where transt, falls.

for gaph without, perfect embedding on sended perfectly settifies well D. for all well D. for (u.l. -) 45.

(HW2. Q3)	
3. GNN. Expressiveness.	
MRY = 4 (D-KADX KKWK)	
3. Effect of depth on oxpressioners	
o 051.	
D). real 3 layers to obstrukt.	
D). Q increase de	pt
of of course give man	e
9 P	31,
0.6	
o if we take only to largers.	
the can not abstract the	ク
Janes In I layer can perfeating	
perform the task	
3.2. Relation & Roule Walk	
D. heavye pains & randon walk. . Ede TCN=L. and areye appression.	
· Ede TCN=L, and arrye apprector.	
holder = [Twi Sant by Ca)	
equillent to the step 1	

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12 (8) = = 1 (8) + = 1 / 23 60 (5 (4)) H= = (H2+D-1AH2) = = U+D-AJHe. (o rote take D' =dy(Piv") D-IA= D-KADK) 3.3. Over-Shoothy zefect.) very laye depth. give rise to the undesirable effect of aersmattery. estate high = 1/2 = 1/2) . Ossume the graph is connected & to be prottee companets othe box HRH = D-A HP. (D-1A) & HO. = D-2 ARHO. of loo. such wide teles to raphber to average. hind: · it will spread to the whole graph. In Markey to tree and at will have by a Jun awaye of the whole graph. -> smooth effect 3.4. Leaving BFS with GNN n. water flow breadth-first search. -> for Hat determine whether a node is rewhalle from source at step t. Then its previous. reachability and its neighbor's previous reachabiting