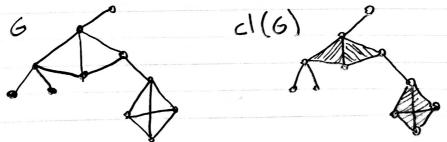
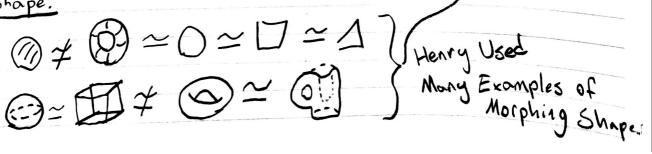
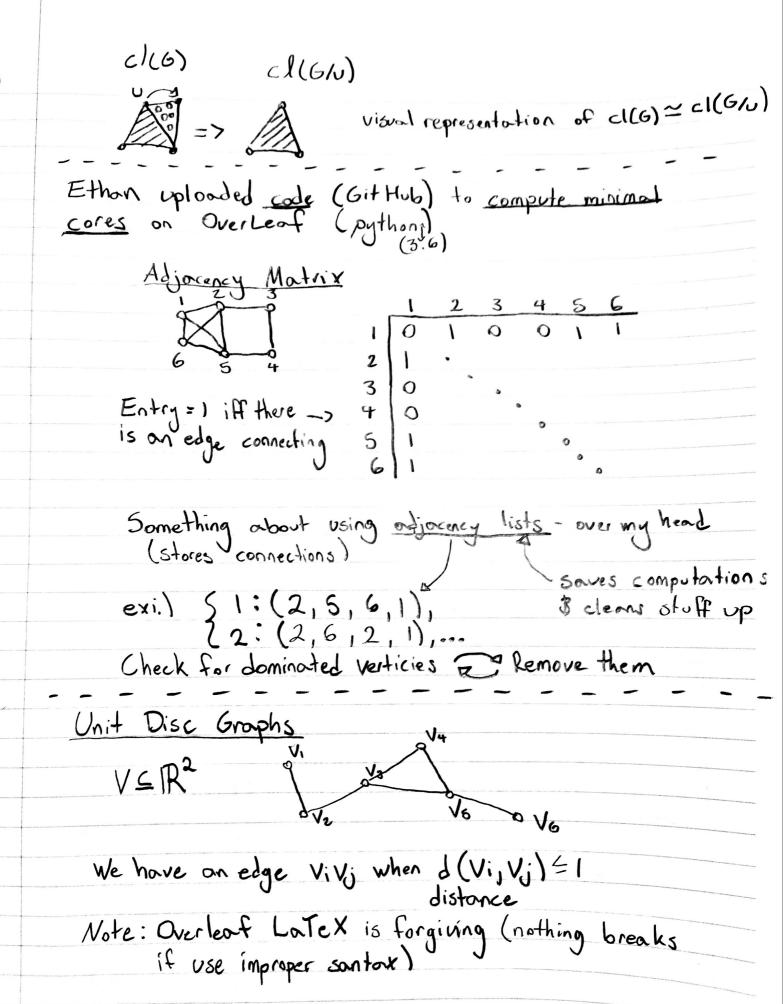
Dutnam Seminar 2-11-19 The Topological Perspective Simplical Complexes O-simplex 1-simplex 2simplex 3simplex + a k simplex will have k+1 verticies <u>Pefn</u> A simplical complex K on a vertex set V is a set of simplicies of SV st if Clique Complex is a simplical complex based on a "you throw in all the triangles and tetrahedra you can onto a graph" denoted (1(6)

it is the LARGEST simplical complex you can make



Fact: if v is a dominated vertex in G, then c1(6) and c1(6/v) (6 without v) "have the some Shape.





	Conjecture: A clique complex of any unit disc graph "has the same shape" as a wedge of spheres bouquet A) Wedge o' Spheres TWedge o' Spheres
	Wedge o' Spheres TWedge o' Spheres
	Possible Cading Task: Write code that takes VER2 as input & outputs unit disc graph
-	V unit disc of V minimal core
	of V. Unit disc of V minimal core Vi V2 V3 V4 => V3 V4 The goalis to outomate this proscess to speed up Searching for potterns
−	
	Communication is in Overleaf - play with it overleaf > email
	Vororoi Diagrams — Delaunay Triangulation when share vororoi edge Could Be Useful

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