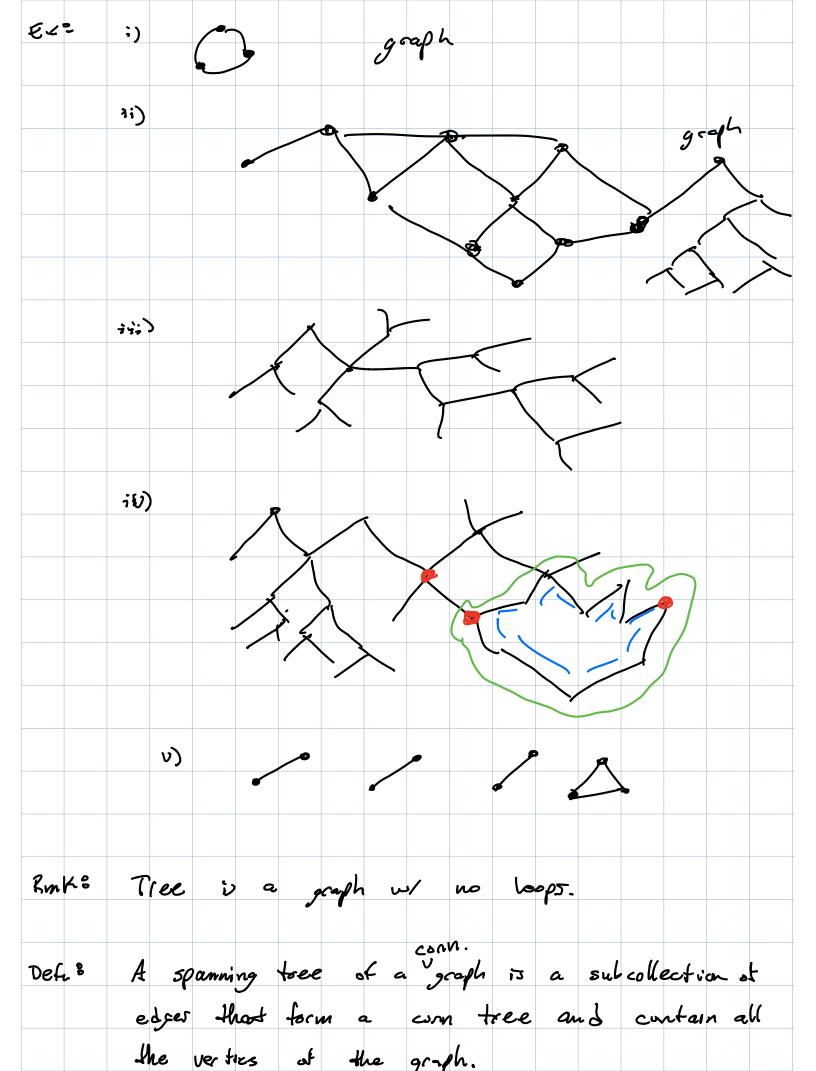
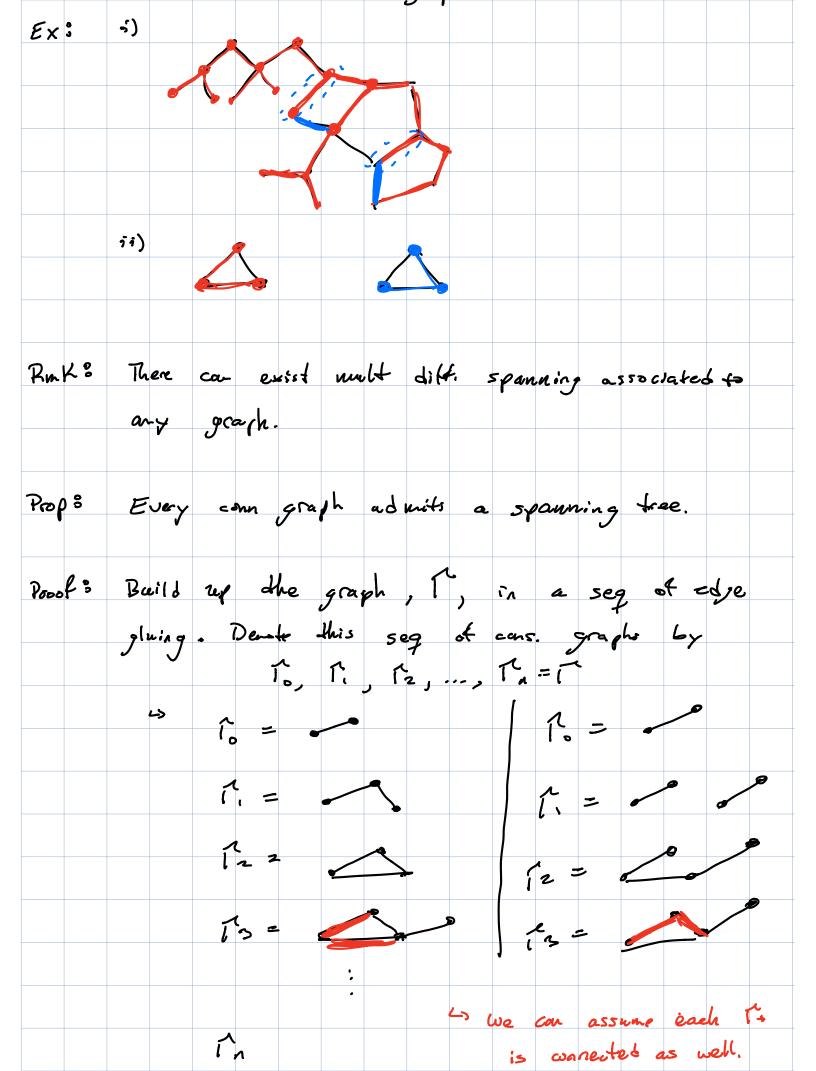
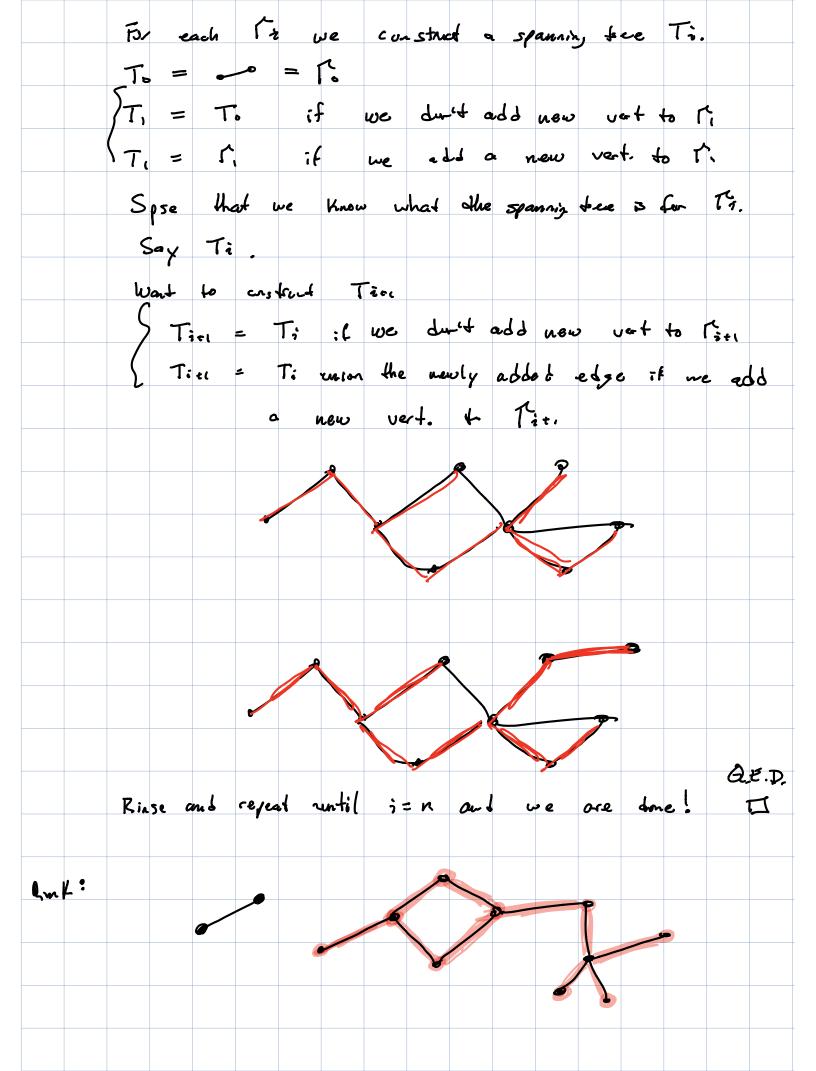
Lecture #2

Defn 8 A polygonal cpx is a gluing of vertices, edges, and r-polygons where glue means glue edges to edger along boundaries of polygons. (1 n-poly = disk wr n-side) 2 - poly = tere 3 - poly = 4-poly = [ic] 5-pory e Ter ·) ٤×٩ \bigcirc cirde = 5(זי 2 e la la luiter luiter e e iii) Def.: A graph is a polygonal cpt composed entirely of edges. A graph is a tree if each pair it vert may be joihed via a unique ped I edges







Defn⁸ A planar dym is a polyanal cpx obtained from gluing pairs it edges at a single 2n-polygon. ~> 2-sides Ex \$ う) $b = \frac{1}{1} + \frac{1}{1} = \frac{1}{1} = 2 - torus$ i;) a $\sqrt{1}$ =: $S^2 = sphere$. (s' = circles)T' = 1 - tonus)÷īi) 1111 ~ Misbous band ふい) A continuous may between top. spaces, Defn 3 f: X -> Y, is an assignment of pts in X to poinds in Y st f taker pts infinitesing close together to pts int close together is cont. map preserves the notion of closeness. $- + f(x) , f: R \to R.$ 4 Not curt, ie, doesn't pres. notion st closeness. $\xrightarrow{ } \mathbb{R}$ F(Northern hemi) = 1 F(sought heni) = 77

