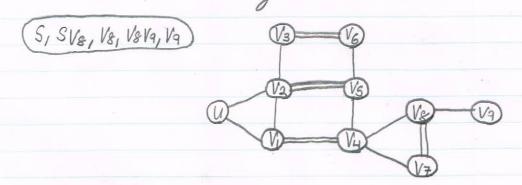
Name: Connor Raymond Stewart ID: 101041125 MATH 3802 Tutorial March 26: Let G=(V,E) denote the undirected graph depicted below: let M denote the matching consisting of the double edges! (1) Show the graph G/s & the value o(G/s) Where S={V1,V2,V4}: \* C is a node cover if every edge has at least one end in & 6/S: 0(6\S)=3 d) Show a depiction of T: b) Show the nodes in E(T). E(T) = {4, V4, V7, V5, V3} C) Show the graph G'=G/S & the matching M'=M/S in G' where S denotes the blossom & U/VI/V4/Vs/V2 }: G'= G/S 4,1,1/21

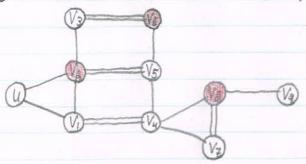
M'=M\S={V3V6, V9V8}

2) Show an M-augmenting Path in G', use it to augment the matching & extend it to a persect matching in G:



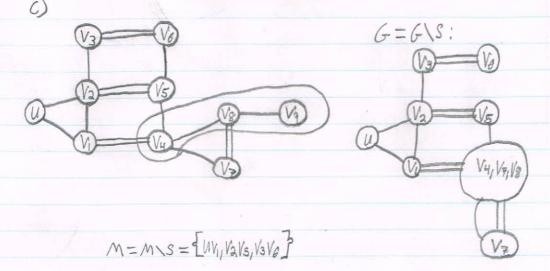
ASK:

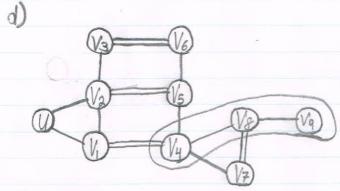
DASK for the Same into w/ S={Va, V6, V8};



 $V_3$   $V_5$   $V_9$   $\circ (G \setminus S) = 4$ 

2) ASK for the same as c) & d) W/ root 19 & S= {14, 18, 17}





thus, we get: S, SV, V, V, V, U, U S, SVs, Vs, Vs Va, V2, V2 V3, V3 V6