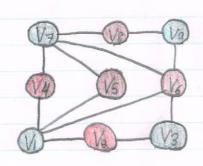
Name: Connor Raymond Stewarts ID: 101041125

MATH 3802 Tutorial March 19:

Tutorial:



a) M={V, V5, V6 V7}

T	E(T)	O(T)	b) M=V1V5, V4V7
£43,03			each edge in motehing his
FV41V61V73, {V4V71V6V73}	V4, V6	V7	one end in E(T) & one
EV41/61 V21 V1/63, EV4 V2, V8V6,	V4, V6, V5	VZVI	end in O(T) so we are
V14, V1833			Grustrated

$$C) G(V(T) = V_8) V_9$$

$$V_3 \qquad V_4 = \{V_8 V_9, V_2 V_3\}$$

$$C' = \{V_{21} V_8\}$$

d)
$$C'UO(T) = \{V_{2}, V_{8}\} U \{V_{1}, V_{7}\} = \{V_{1}, V_{2}, V_{7}, V_{8}\}$$

$$Remove$$

$$MUM' = \{V_{1}V_{5}, V_{4}V_{7}\} U \{V_{8}V_{9}, V_{2}V_{3}\}$$

$$= \{V_{1}V_{5}, V_{4}V_{7}, V_{8}V_{9}, V_{2}V_{3}\}$$

$$|C'UO(T)| = |MUM'| = 4$$

Remove all edges but: VaVa, VaVa, VaVa ASK:

let M= [Viva, V=V8], let r=Vs:

a) .	, ,		(V7 (V3 (V3)
T	E(T)	(O(T)	The
{{v ₅ }, 0}	Vs	Ø	13 13 13
{{\begin{align} \langle V_1 \langle V_2 \langle V_3 \left\ V_1 \langle V_2 \left\ V_3 \left\ V_1 \langle V_2 \right\ V_3 \left\ V_1 \langle V_2 \right\ V_3 \left\ V_1 \left\ V_2 \right\ V_1 \right\ V_2 \r	V21V5	Vi	
EVIS, VIVA, V7, V83,	V2, V5/V8	V11 V7	(V)=(V)

b) M=Viv2, V4V2 & each edge in matching has one end in E(T) & one end in O(T) So we are drustrated

c) G/V(T) =



d)
$$C'UO(T) = \{V_6\} U\{V_1, V_7\} = \{V_4, V_6, V_7\}$$

$$MVM' = \{V_1V_2, V_4V_7\} U\{V_9V_6\}$$

$$= \{V_1V_2, V_4V_7, V_6V_9\}$$

$$|C'UO(T)| = |MUM'| = 3$$