7. PLANARNOST
[7.10] KURATOWSKI -> ako se graf može svesti na K313 ili 25, to je pla
=> Je li plancian! debiveu iz overga
Graf mje plandran po Kuratowski teoreum
7.11 Peauaran?
Graf mje planaran po Kuratousokom
7.12 Planaran?
Make. S. Wije planaran po Kuratowski teoreum 18

7.13

L) HILLOUA FORMULA

$$C_{\Gamma}(K_{6}) \leq \frac{1}{4} \cdot \lfloor \frac{6}{2} \rfloor \cdot \lfloor \frac{6-1}{2} \rfloor \cdot \lfloor \frac{6-2}{2} \rfloor \cdot \lfloor \frac{6-3}{2} \rfloor$$

$$C_{\Gamma}(K_{6}) \leq \frac{1}{4} \cdot 3 \cdot \chi \cdot \chi \cdot \chi$$

-> također konsuo:

$$G(K_{7,0}) = \left\lfloor \frac{\gamma}{2} \right\rfloor \cdot \left\lfloor \frac{\gamma-1}{2} \right\rfloor \cdot \left\lfloor \frac{\gamma-1}{2} \right\rfloor \cdot \left\lfloor \frac{\gamma-1}{2} \right\rfloor = \gamma \text{ TURANOVA}$$
FORMULA

-) vnjedi za

$$G(G) = ?$$

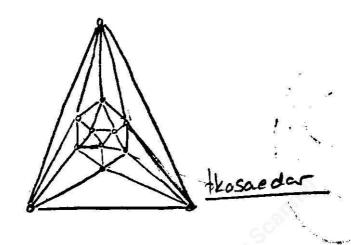
$$\frac{Cr}{Le-\frac{C(v-2)}{C-2}}$$
 regularie
grafave

C-dulj. uajtraćeg ciklusa

$$(1)$$
 $\left[\frac{21-\frac{6(14-2)}{6-2}}{6-2}\right]$

=) samo izbreji, avo se ne da izracumati, ali ni pojednostaviti

7 18 protuprimer: K1,6 17.19 Jeducstavni peavarni tipartitui graf 5 @ 7,2 Dokar 2ffe nu-45e M-e+f=2 e=21 1e>2 M - 2 + f = 2M-e+f=2 M+f = 2+e m+f-4 M + f - 2 = e2f = M+f-2 M=3, f-1 2f-f=u-2 2.16 € f = M-2 2 5 2 V M=f+2 -> 2(f+2)-46e 24+4-450 2fse / 7.20 $m \leq \frac{5}{3}(n-2)$ =) $m \in \frac{c}{c-2} (M-2)$ Dokazi1 C = 5 $\begin{cases} 2m = 5f \\ u - m + f = 2 \end{cases}$ --> f \(\frac{2}{5} \mathref{m} $u - m + \frac{2}{5}m = 2$ 7 $M - \frac{3}{5}M = 2$ $M-2=\frac{3}{5}m$ m < 3. 5m m & m



24-47年

Dokasi1

7.21

$$\frac{1}{t(a)} = ?$$

$$\frac{t(a) \ge \lceil \frac{e}{3u-6} \rceil}{t(a) \nearrow \lceil \frac{21}{21-6} \rceil} \longrightarrow \frac{t(k_4) = 2}{t(4) \nearrow 2}$$

Peterneur graf?

$$t(q) = 2$$
 (Graf nije pecmaran, min. $t(4) = 2$)

