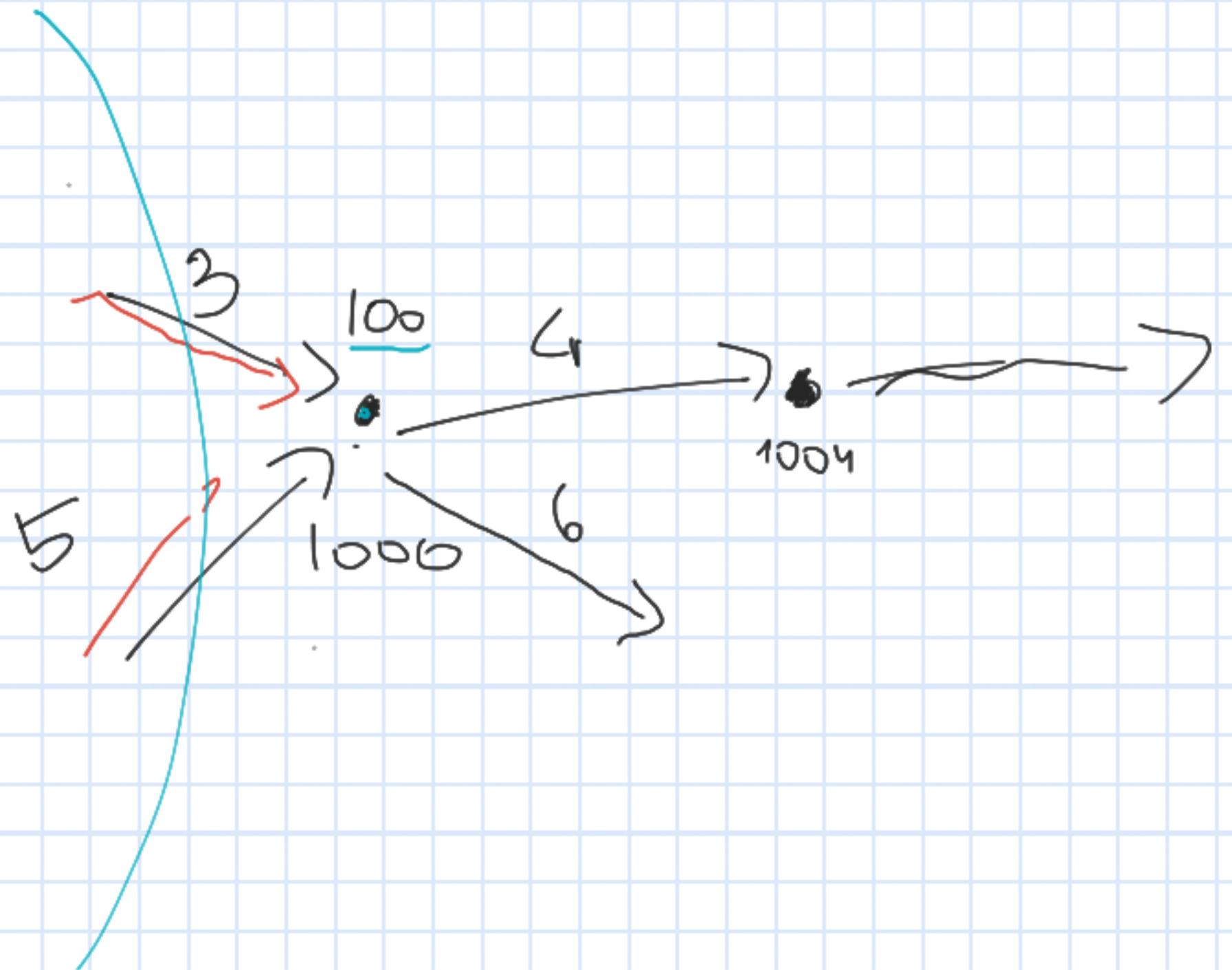
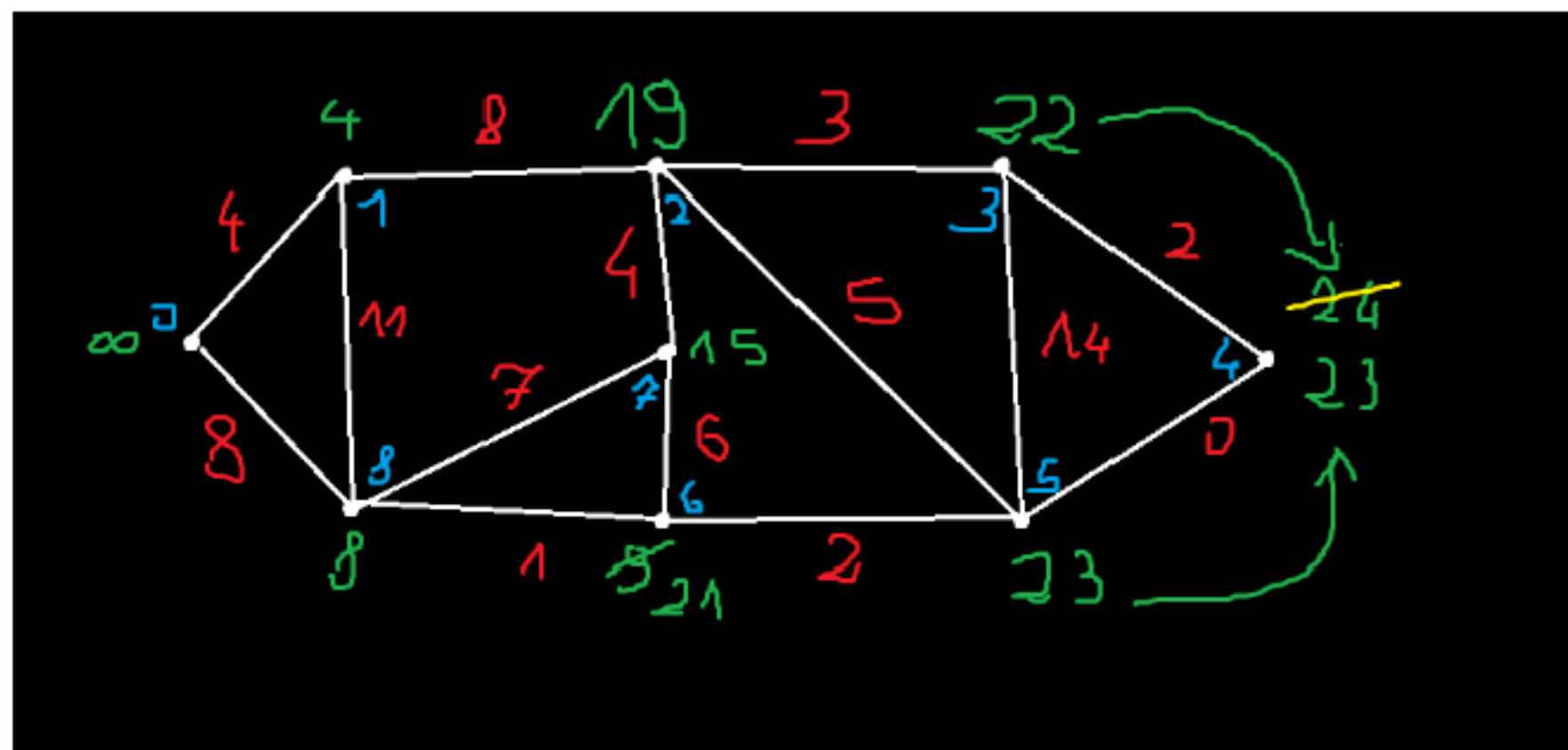
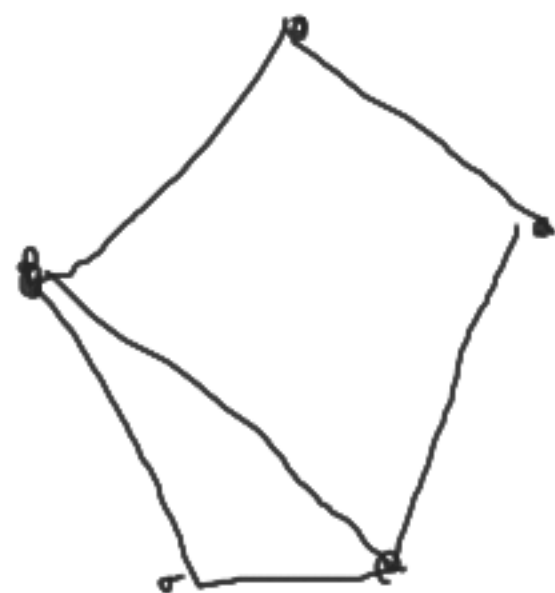


$|E|$
 $\{1, \dots, |E|\}$

(5, wegen enough
 since 2 story
 wogehung) number
 verschiden)





1] Forming logiczne 2 CNF

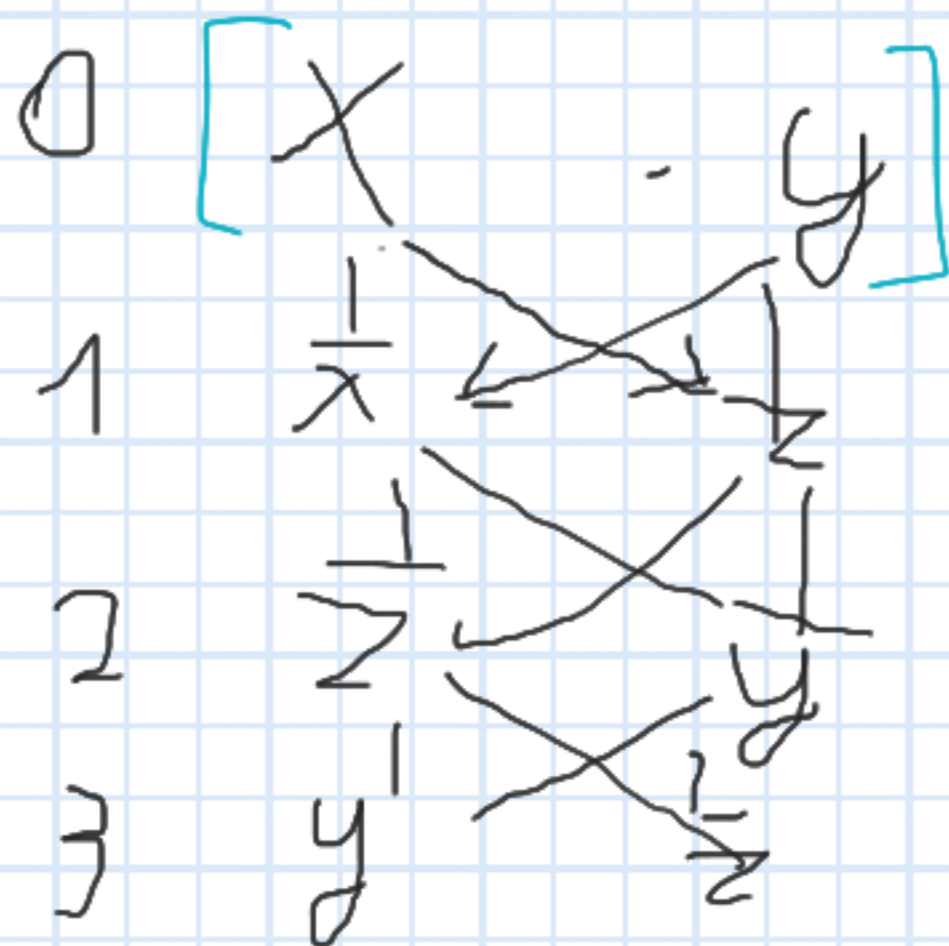
$$(x \vee y) \wedge (\bar{x} \vee z) \wedge (\bar{z} \vee \bar{y}) \wedge (y \vee \bar{z})$$

$\underset{1}{x}$ $\underset{0}{y}$
 $\underset{0}{\bar{x}}$ $\underset{1}{z}$
 $\underset{0}{\bar{z}}$ $\underset{1}{\bar{y}}$
 $\underset{0}{y}$ $\underset{0}{\bar{z}}$

Zadanie: Czy istnieje takie wartościowanie, że formuła jest prawdziwa

$$\neg x = \neg y \quad x = z \quad z = \neg y$$

$$\neg y = \neg x \quad \neg z = x \quad y = \neg z$$

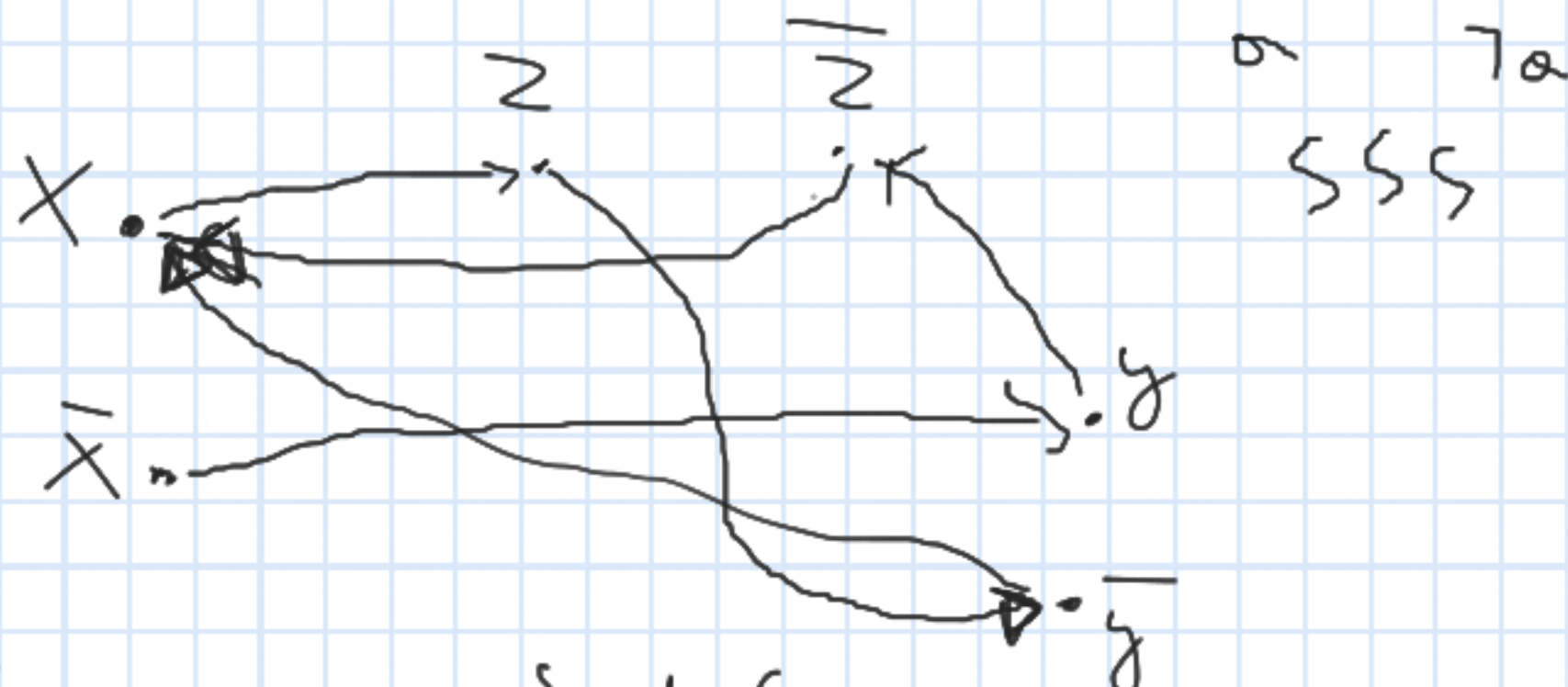


$$a=1$$

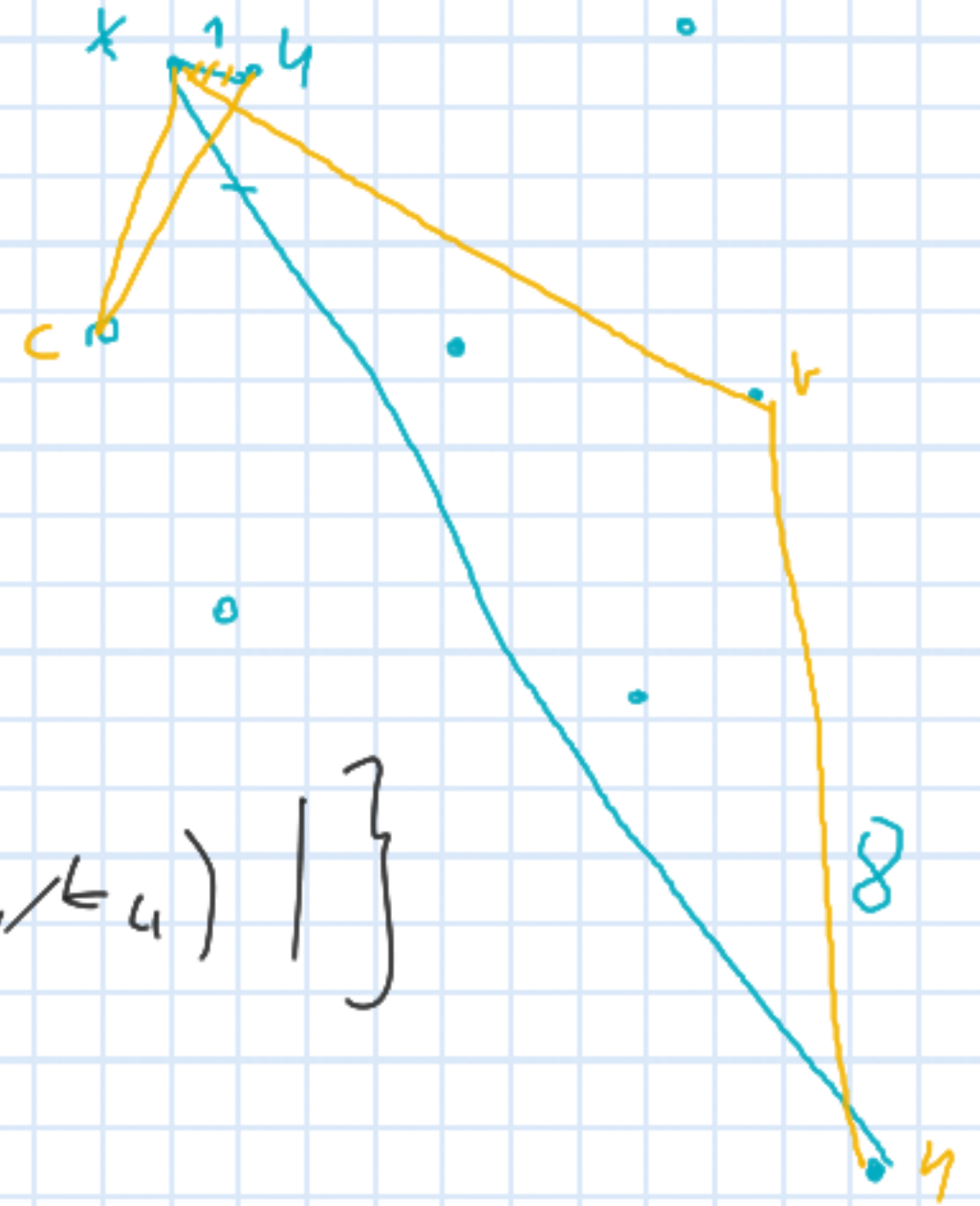
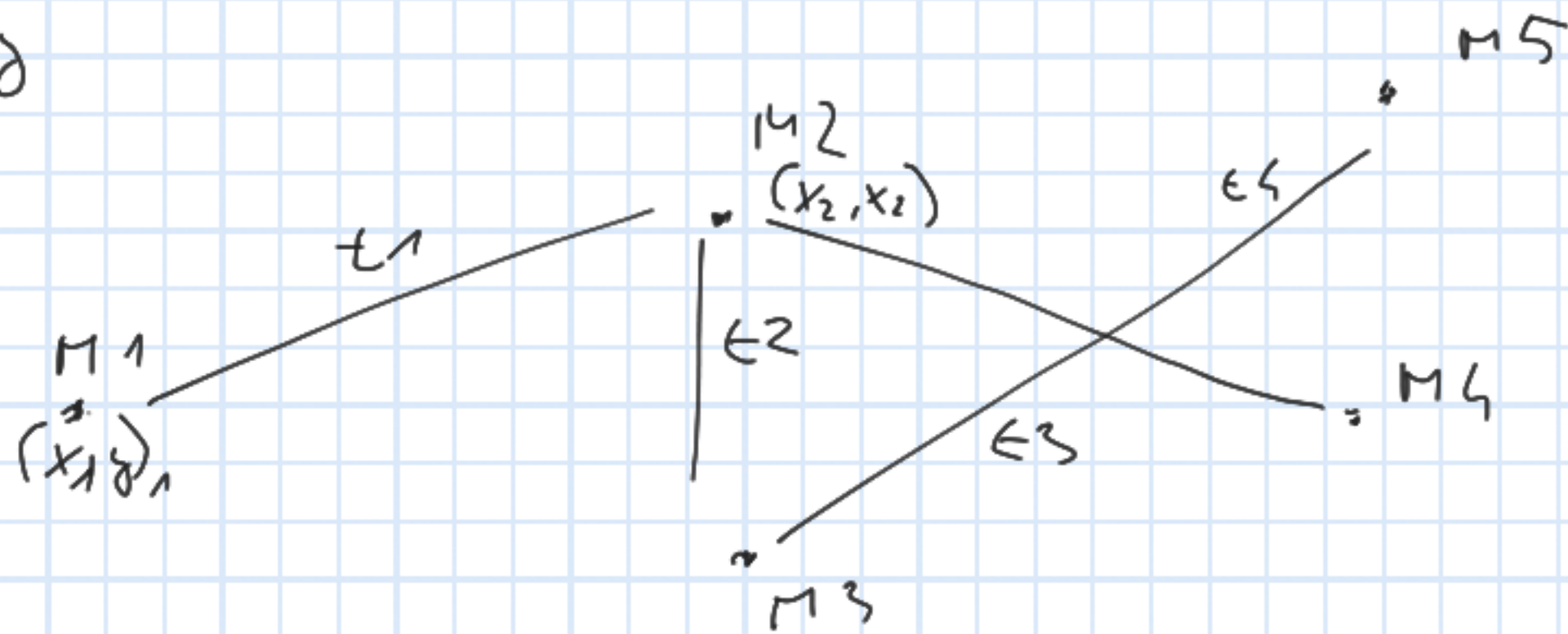
$$a=0$$

$$(a \Rightarrow \neg a) \wedge (\neg a \Rightarrow a)$$

$\underset{1}{a}$ $\underset{0}{\neg a}$
 $\underset{0}{\neg a}$ $\underset{1}{a}$



5) Autostudy



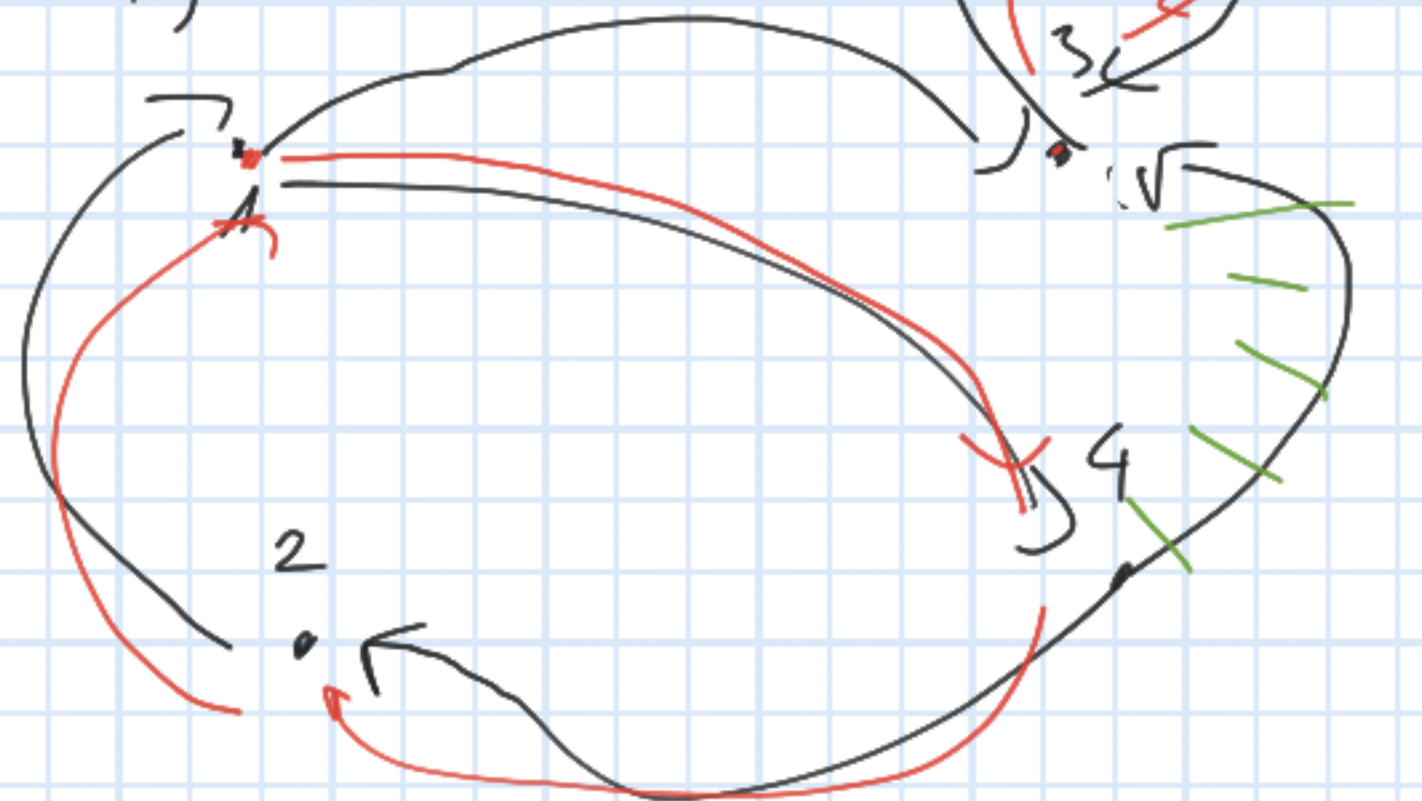
$T_d(M_1, M_2)$ $T_{len}[km]$ dur

$$\text{ZADANIE: } \min \left\{ \left| \min(t_1, \dots, t_4) - \max(t_1, \dots, t_4) \right| \right\}$$

(x, y) (x, c) (c, y)

2) Wyścigi
(serie wyścigów)

(potwierdzenie: 2001)



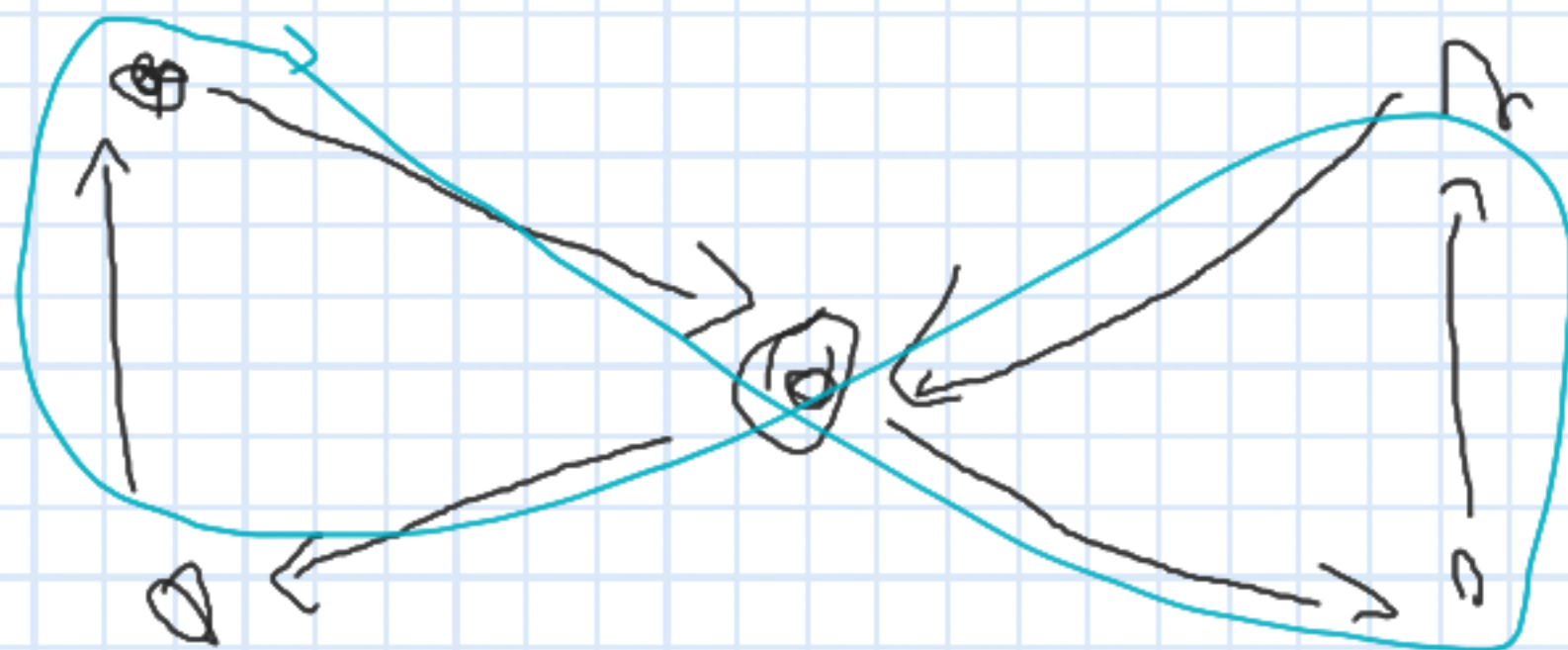
Koide miost
biera udział w wyścigach
Ale tylko w jednym wyścigu

Każdy wyścig to trasa
zamknięta, i cykle proste

ZADANIE: G_0 to sieć...?

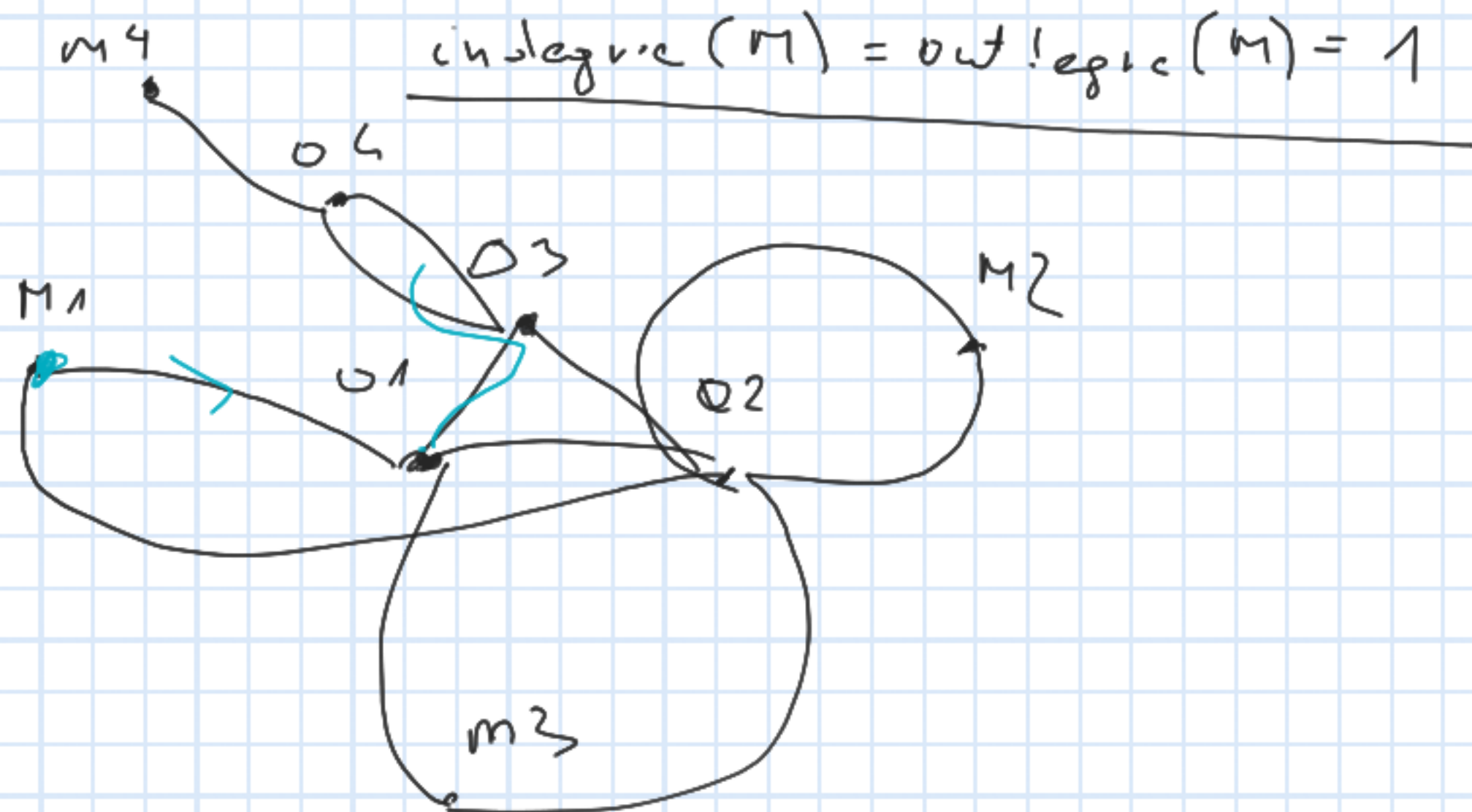
\forall

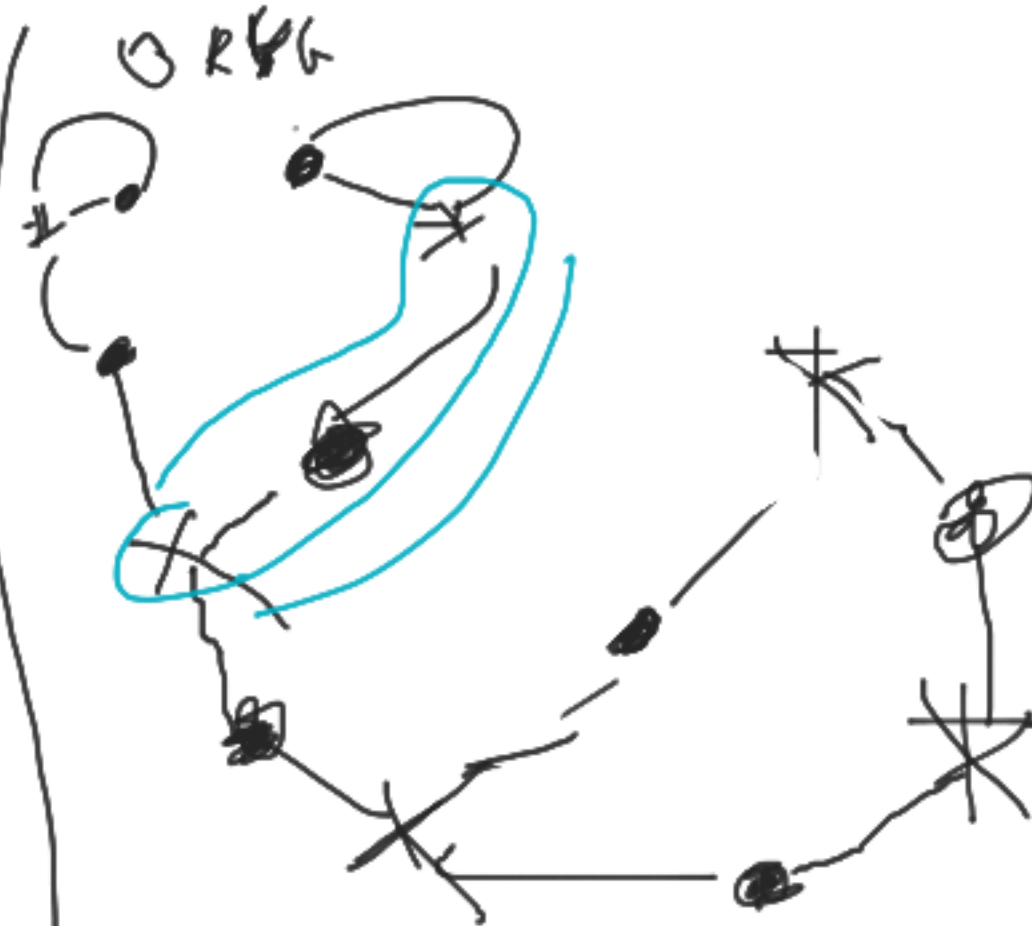
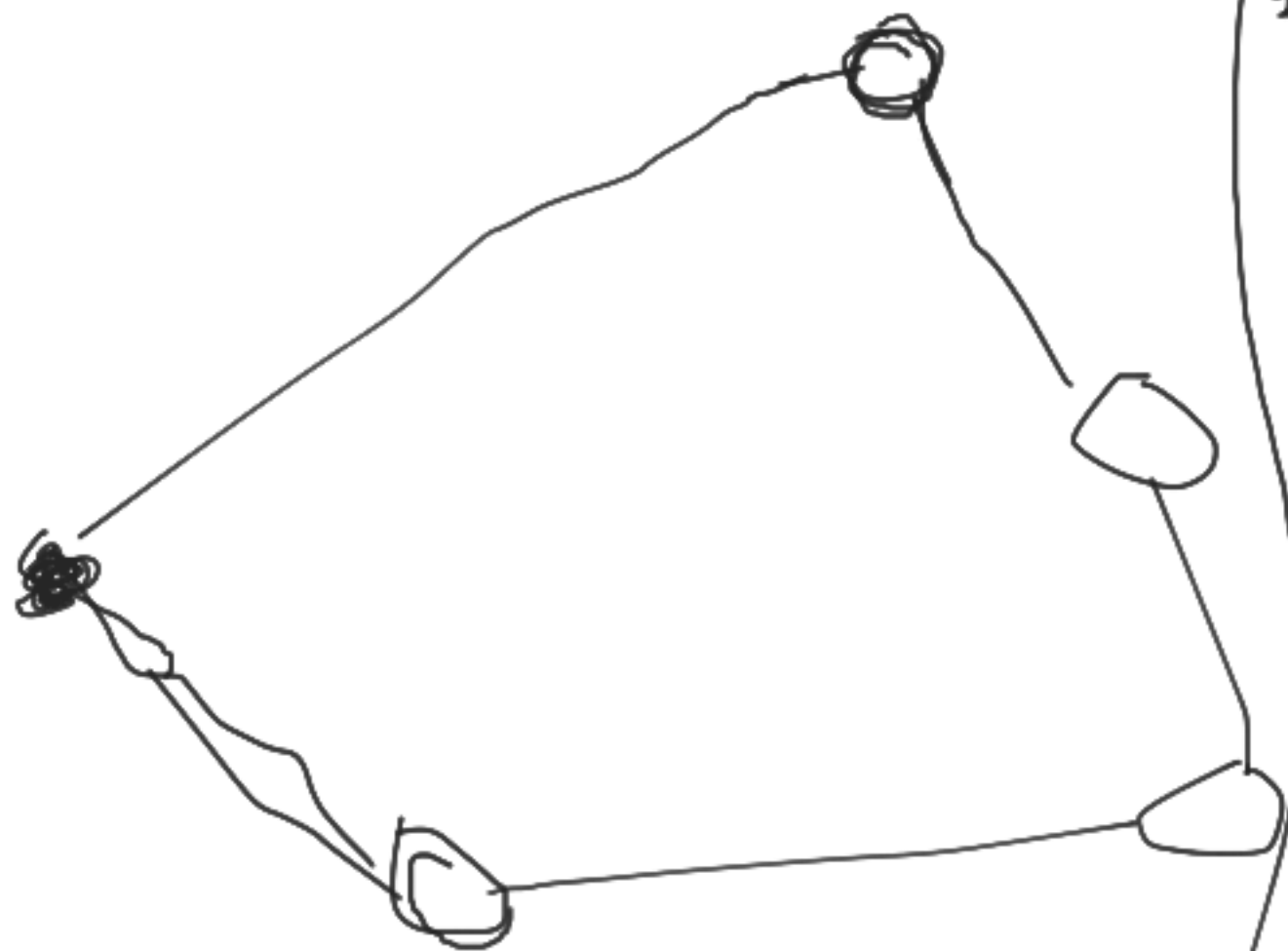
$$\text{indeg}(v) \leq 2 \wedge \text{outdeg}(v) \leq 2$$





4] "Szachy" -





ORGG

EVL