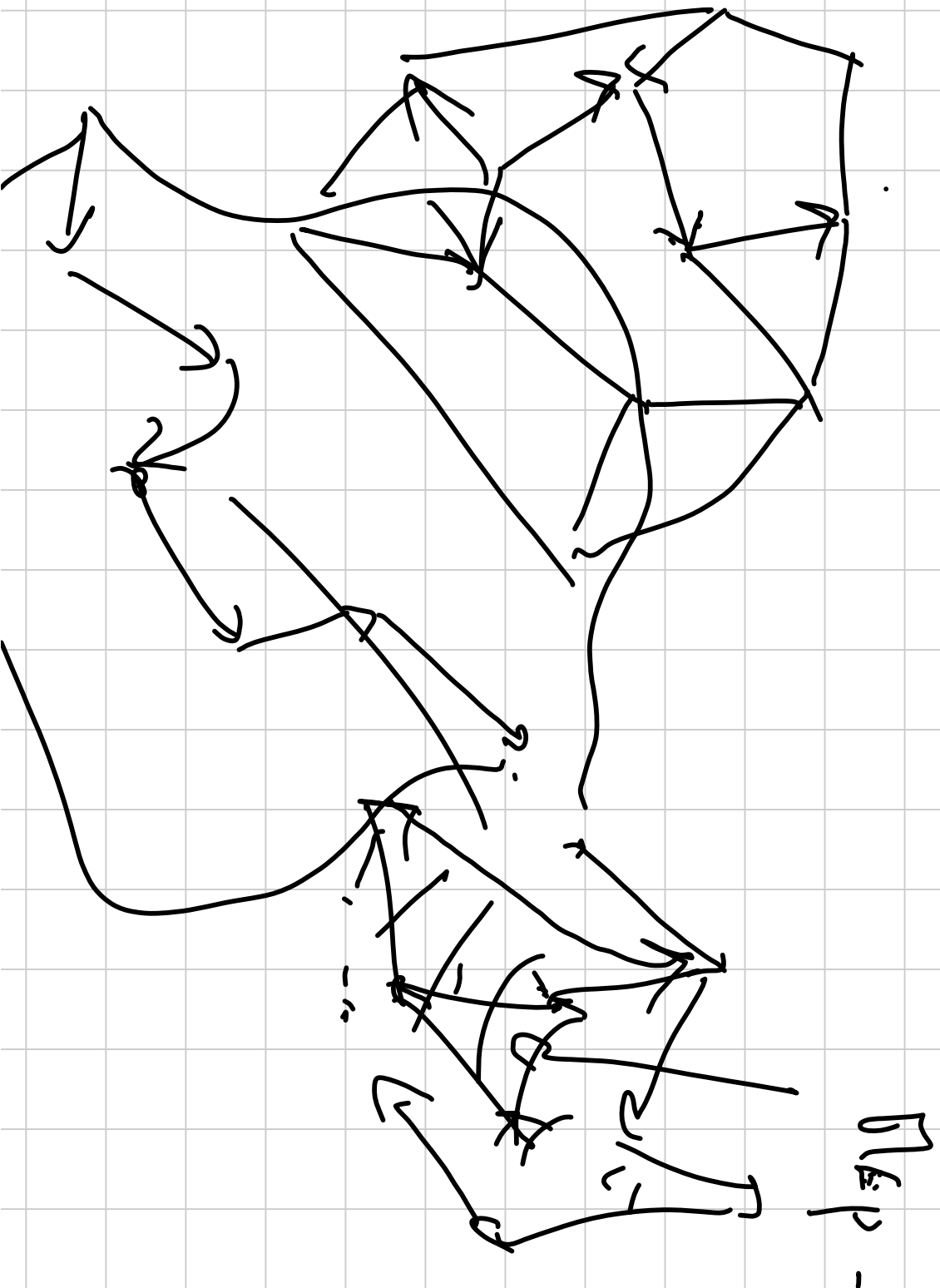
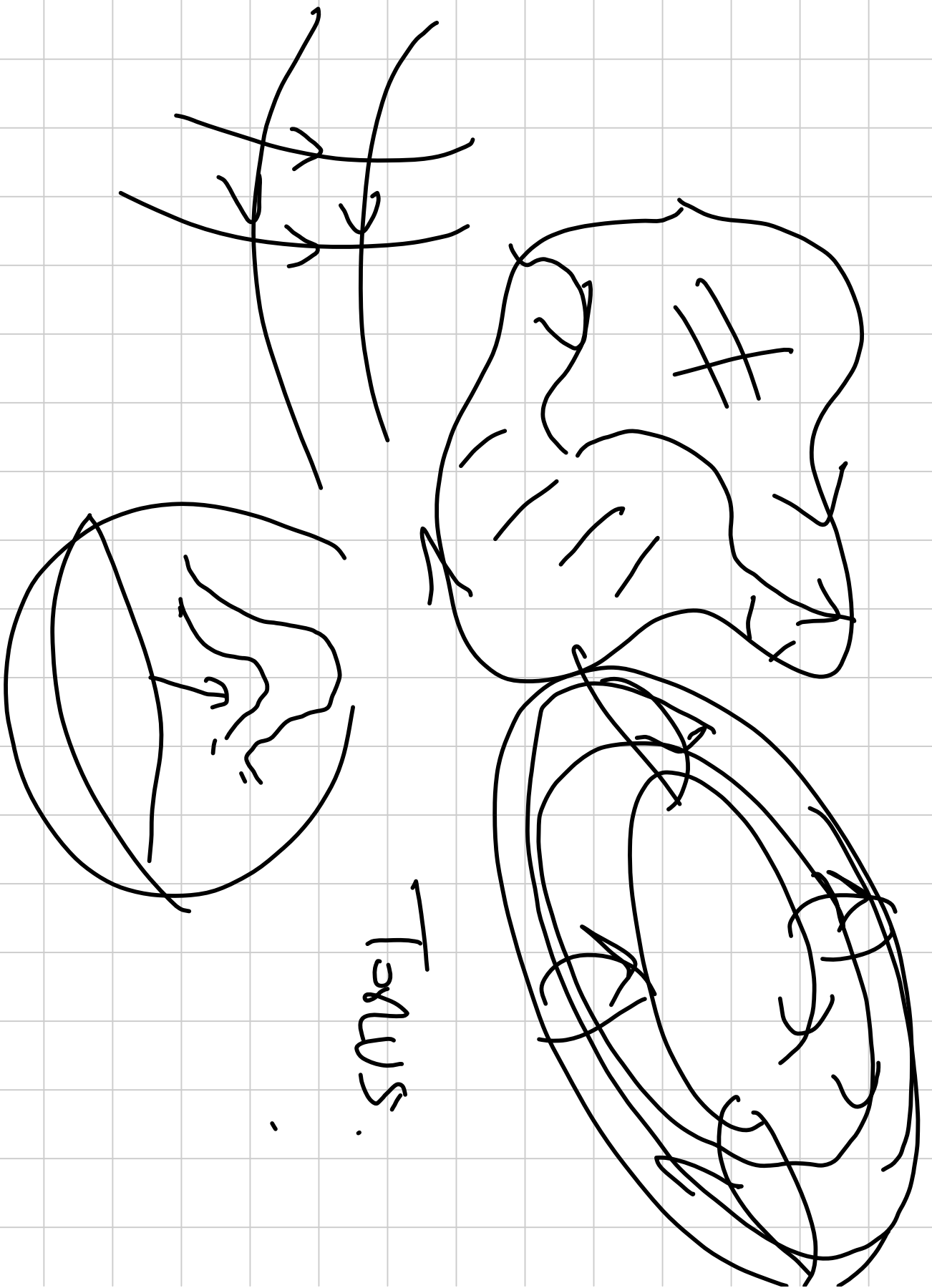


COMBI ADV. Giovedì

Titolo nota

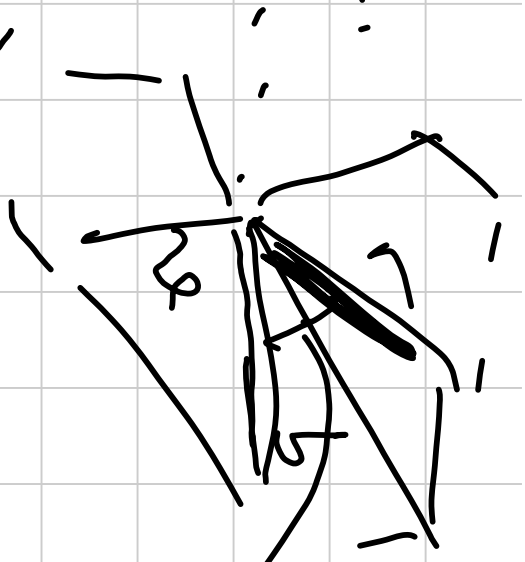
05/09/2013





Torus.

Chinac 1955



Color edges
red/blue

eccentric

$$ecc(r) = \#$$

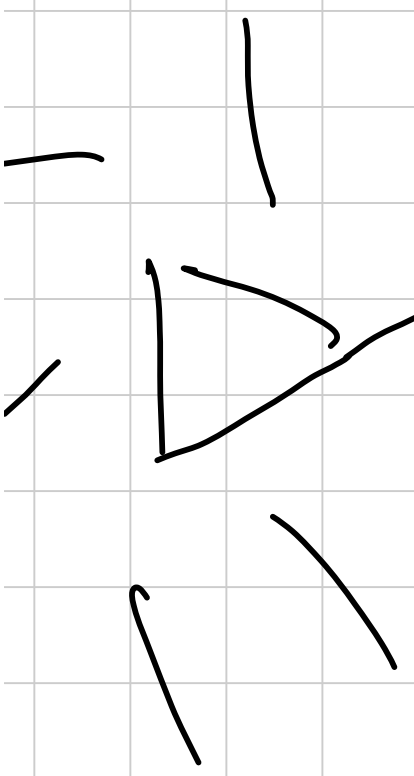
There exist A, B, S

$$ecc(A) + ecc(B) \leq 4$$

$$V + E = E + 2$$

3

2



$$V + F = E$$

(Focus)

^ grows δ

$$V + F = E \delta - 2(1-\delta)$$

$$E \leq 3V - 6$$

$$V = V_3 + V_4 + V_{L+}$$

$$F = F_3 + F_4 + F_{L+}$$

$$3V_3 + 4V_4 + \dots + kV_{L+} = 2E$$

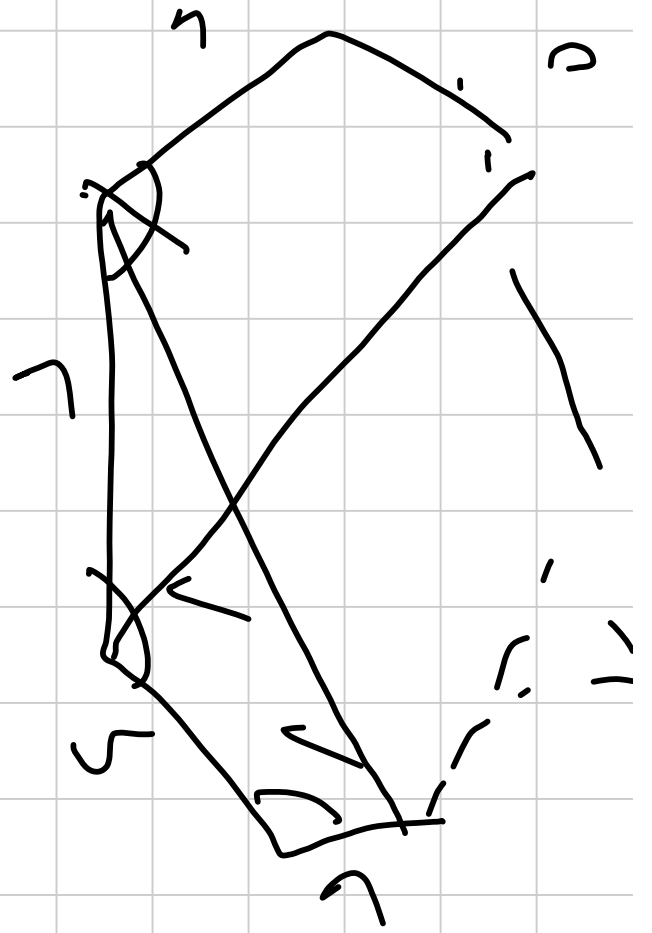
$$\sum_{i \in \text{exc}} \deg(i) = 2E \leq 6V - 12$$

$$\deg \leq 6 - \frac{12}{V}$$

A

$$\text{exc}(\gamma) = \# \quad \text{exc}(\beta) = \# \text{ exc.}$$

$$\sum_{\gamma} \text{exc}(\gamma) = \sum_{\beta} \text{exc}(\beta)$$





$$\underline{\text{exc}(\beta) \leq 2.}$$

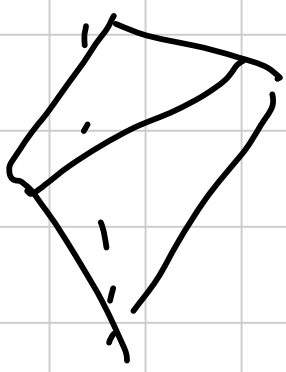
$$\sum \beta_j \leq 6V - 12$$

$$\sum \text{exc} \leq \frac{2}{3} () = 4V - 8$$

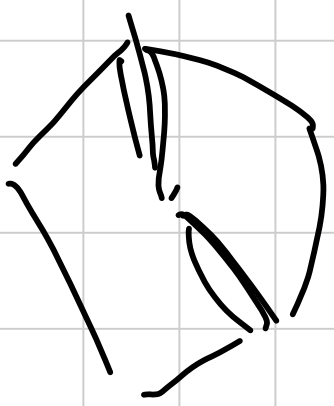
$$\underline{\text{exc}} \leq 4 - \frac{8}{V} < \underline{4}$$

$2Vc(n) = \text{~~odd~~ number.}$

$\exists A, B, C \subseteq \mathbb{Z} \mid \sum_{A \cup B \cup C} \text{exc}(A) \leq 2 \mid$ Best!



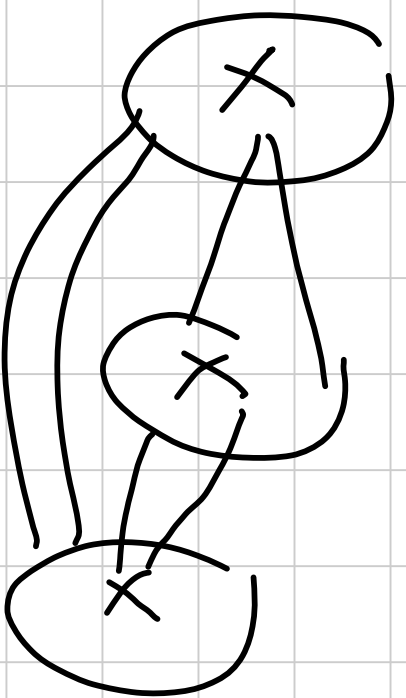
BM0 problem 4



Prop 1.1

$G \neq$ a proper \rightarrow 3 colour

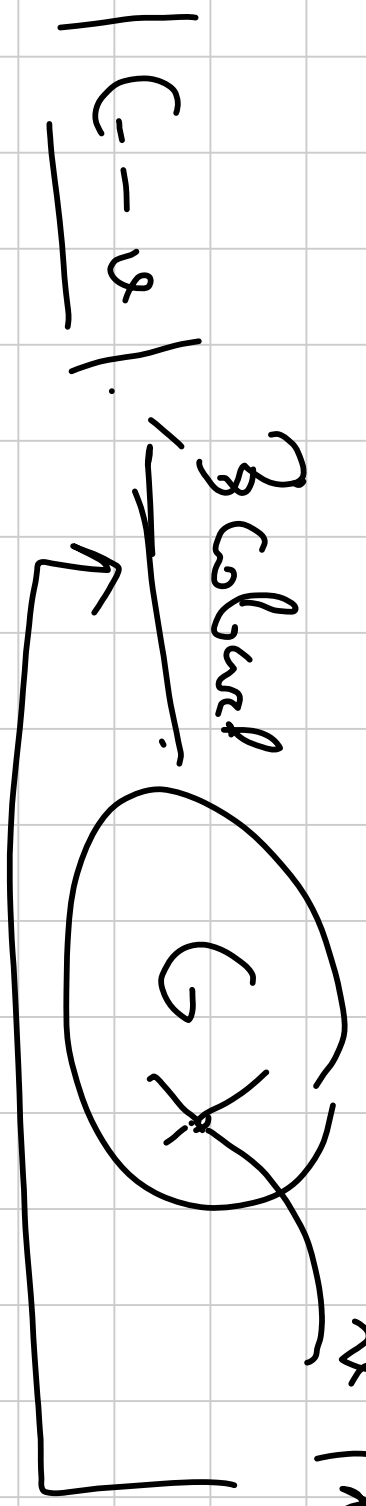
4-colourable

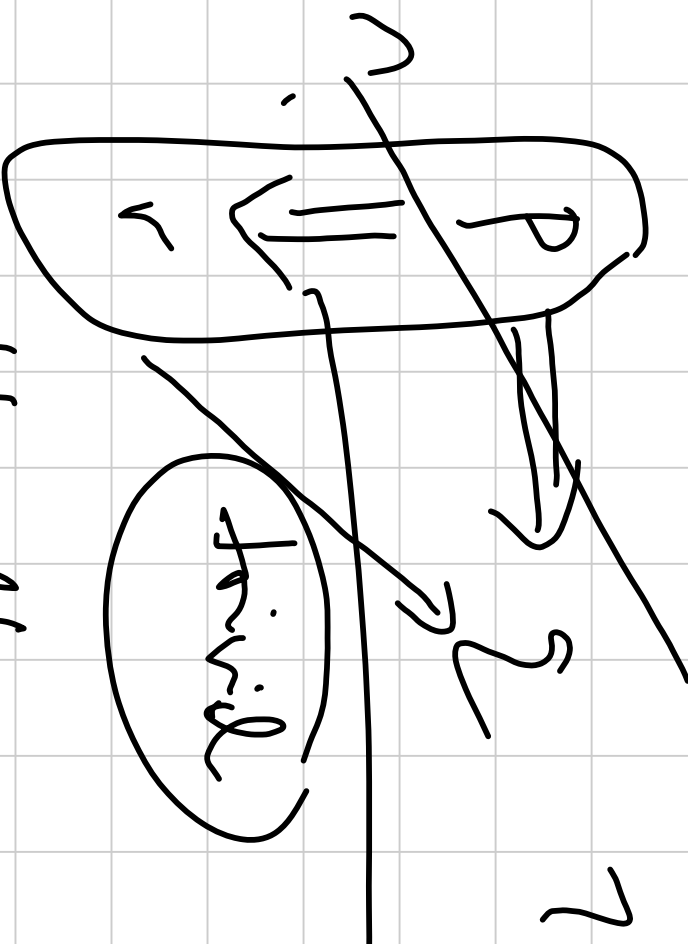


It would be very good.

if $\rightarrow \exists \deg(v) \leq 2$

n ($\deg \leq 2$)





Stronger than

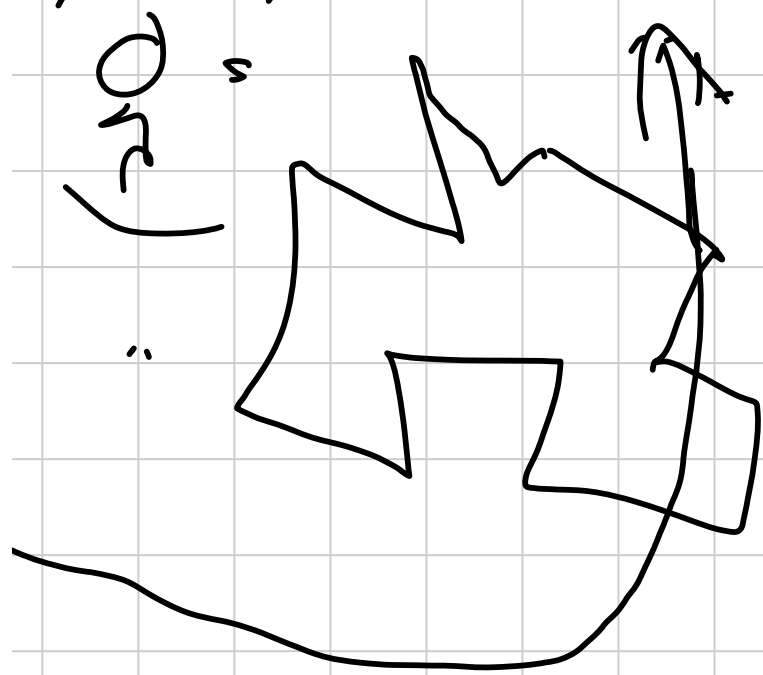
$$P \Rightarrow S.$$

Hamiltonian circuit

Euclidean . . .

Thousands of Discs

(ⁿDisc)



All responses are high enough, \checkmark

$$n/2$$



$x \dots y =$ length chordless path



1990 Pr. Km 2 : 2013 Starecny
2014 Star points.

in general position.

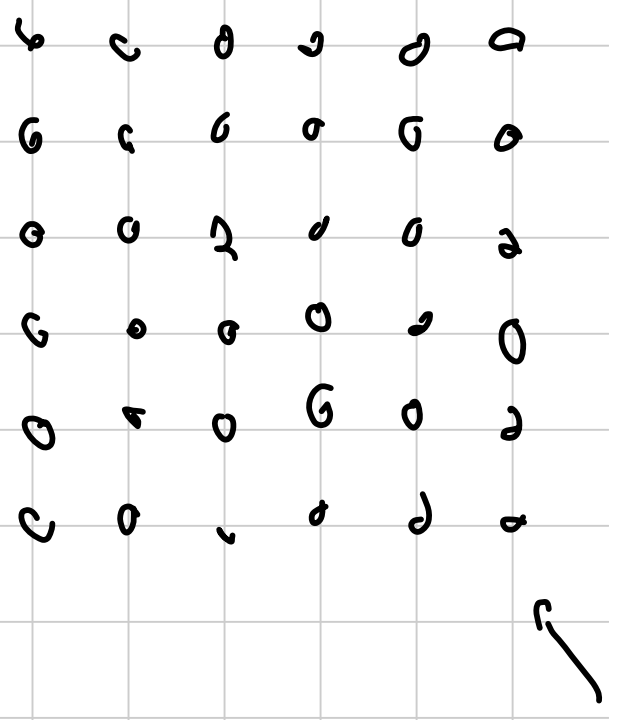
12 lines ———

partition the plane
into regions.

? Point D

e.g. No REGION \Rightarrow Points of
BSFI colour.

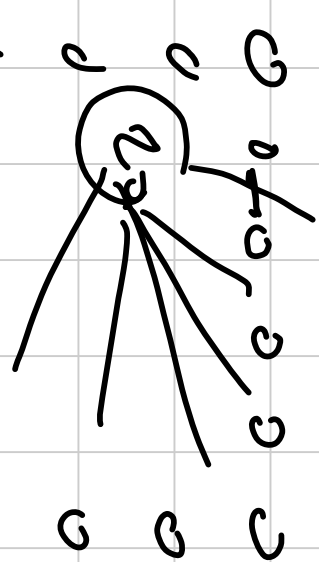
Romanian : No REGION \Rightarrow points of
same color



10 lines is enough.
 $(5 + 5 -)$

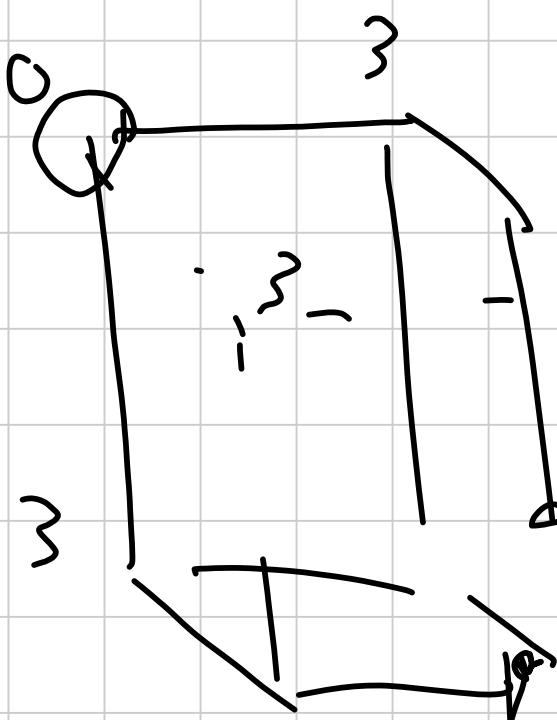
$$k - \frac{k(k+1)}{2}$$

36 pairs, $[k \geq 8]$.

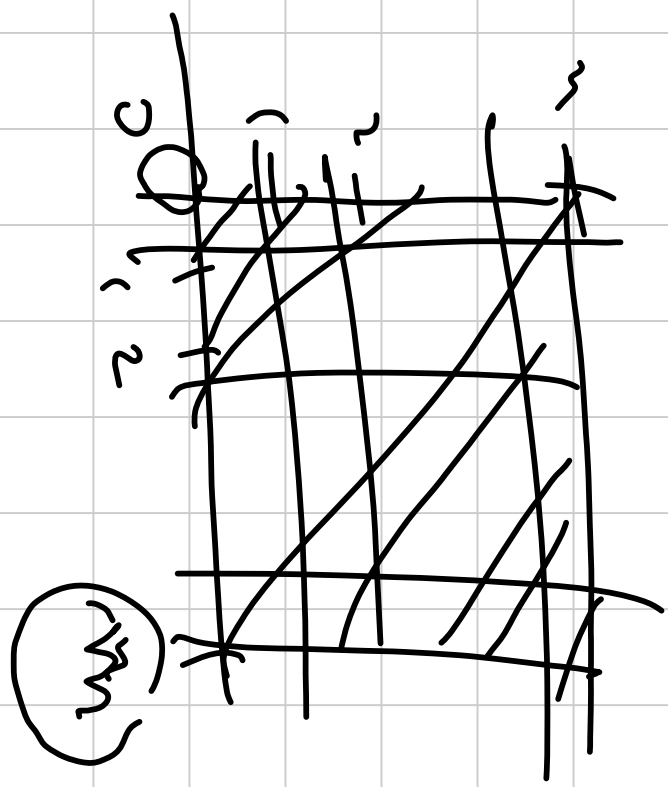
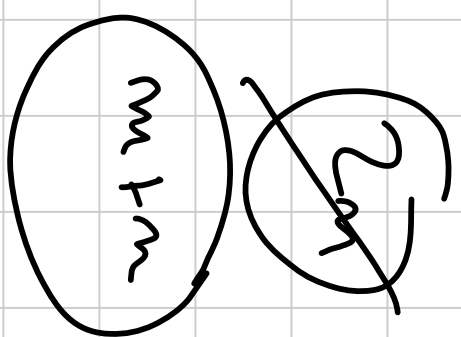


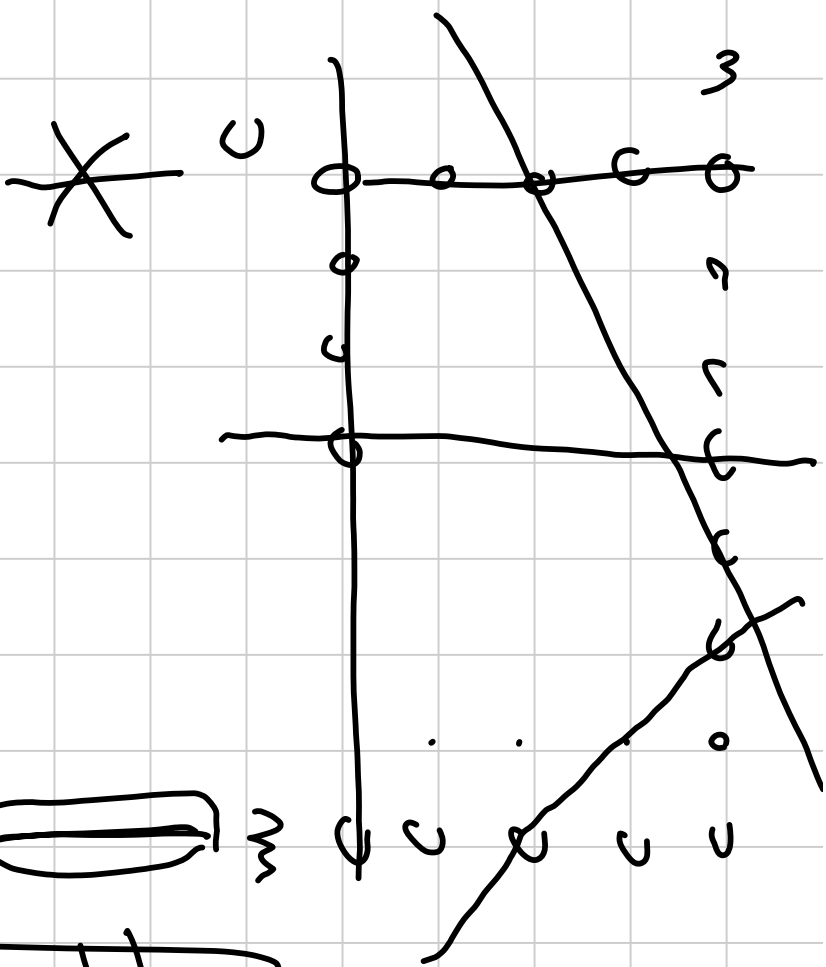
A line passes ≤ 2 of them
 ≤ 1
 \Rightarrow max $\frac{20}{2} = 10$ lines. At \dots

Please review of 1770 2008 (Vishwan) problem 6.



(m, m, m) .





X

Conjunctions

Handwritten text, possibly a name or title, written in a cursive style.

1

ϕ , 1 pair, 1 2-pair $\left[\begin{array}{c} 1 \\ 5 \end{array} \right] / \cancel{\left[\begin{array}{c} 1 \\ 5 \end{array} \right]}$

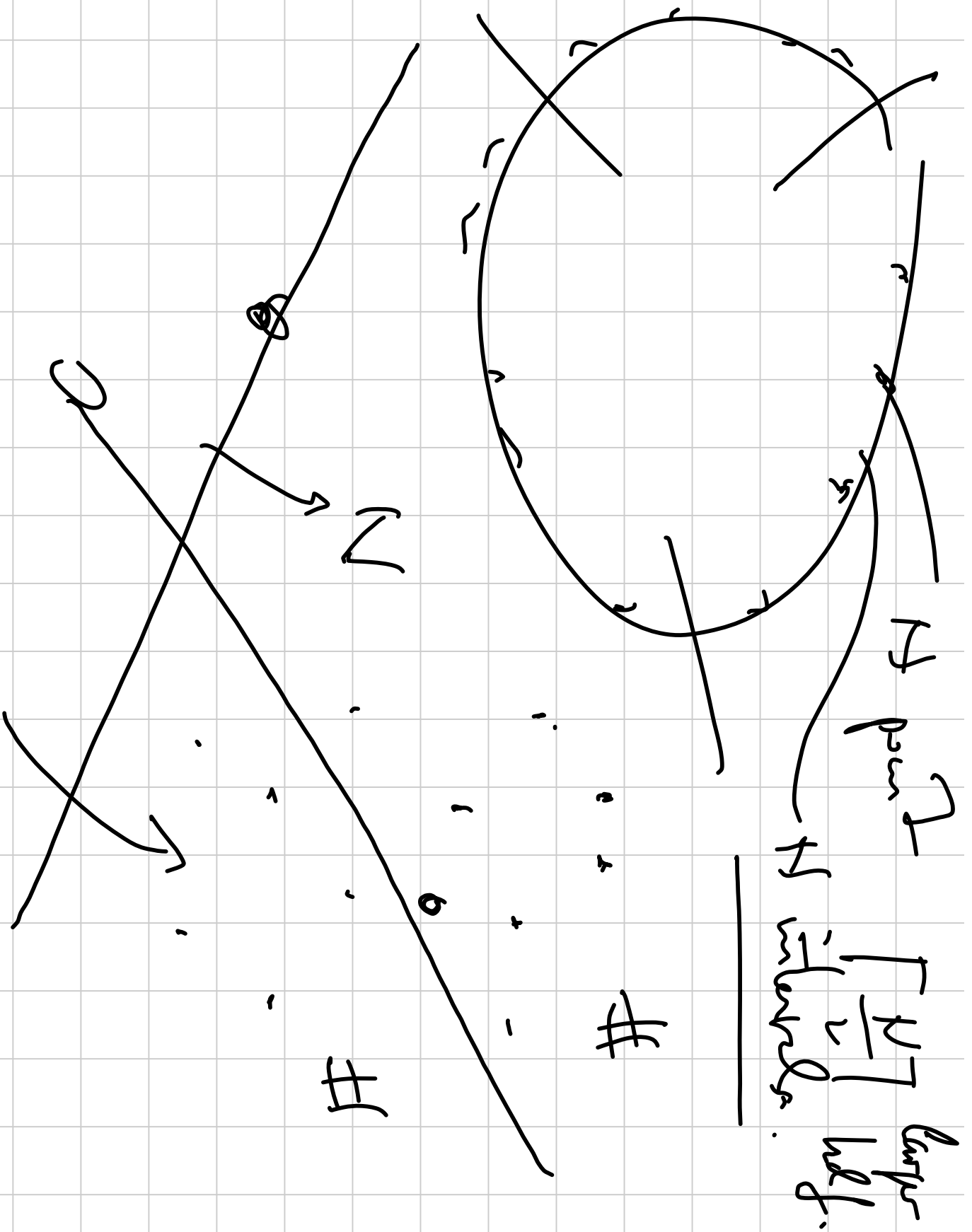
Given K part in g.p. (p line)

K . lines = ?
min

$K=3$

$\left[\begin{array}{c} K \\ 2 \end{array} \right]$

$\left[\begin{array}{c} K \\ 2 \end{array} \right]$ over half

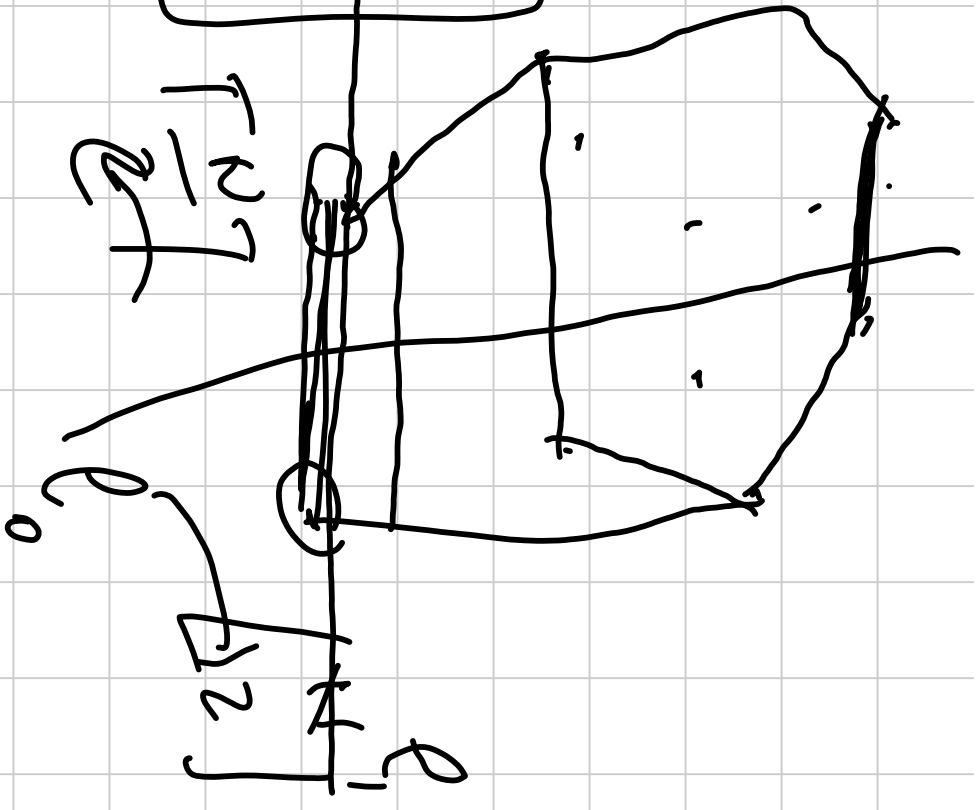


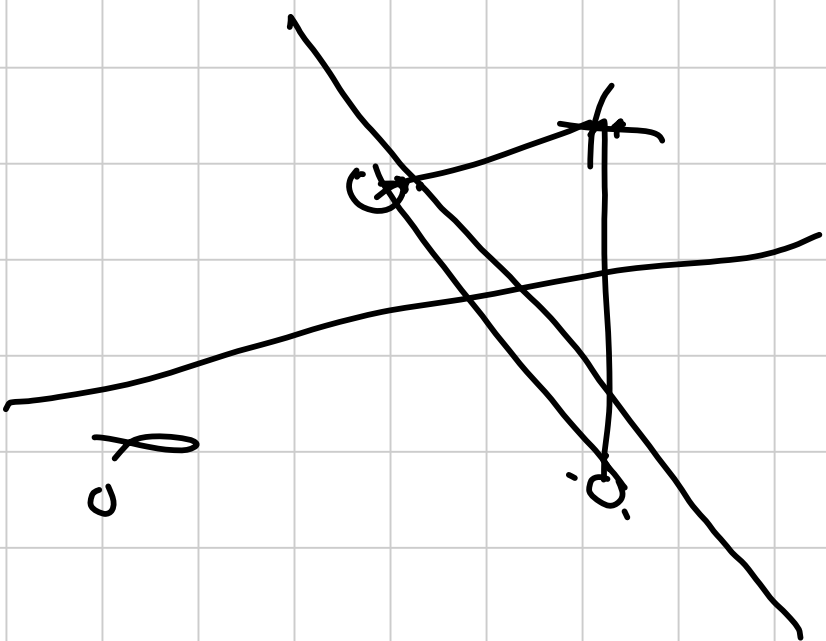
Discrete Continuity

Correct Model

$$G_w(s) = \cancel{DK} \cdot \cancel{SCK}$$

limits # profits





$$\left[\frac{N}{2} \right]$$

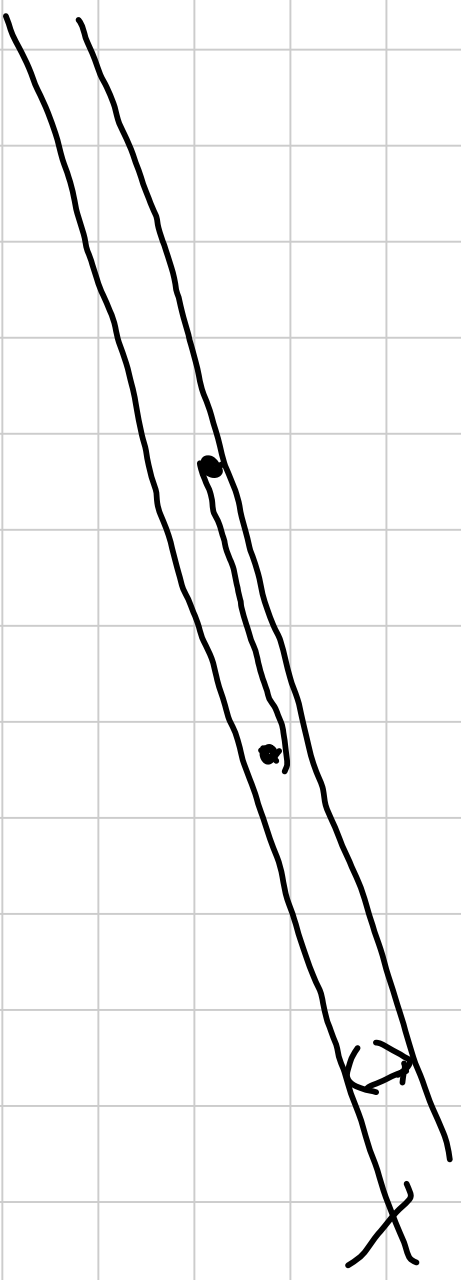
D

$$N = 2m + 1$$

← m rd
m rd

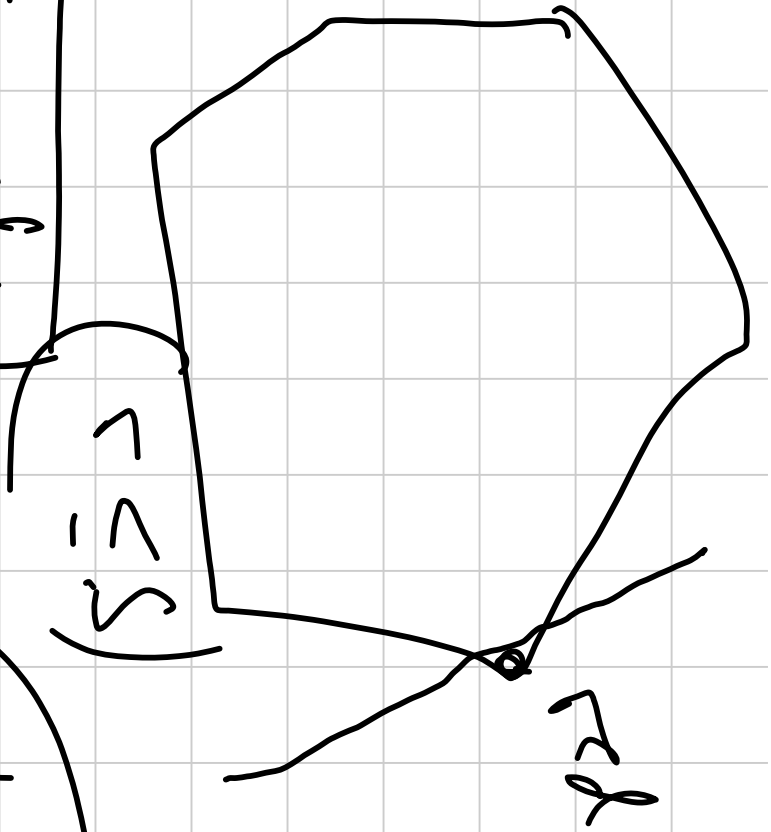
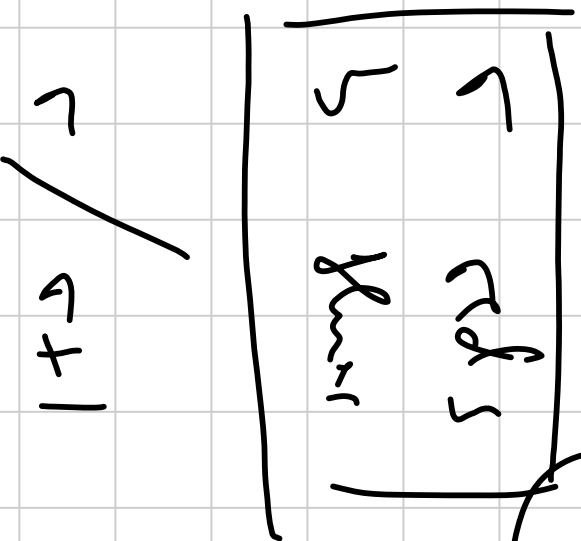
$$\left[\frac{N}{2} \right] = \frac{m+1}{2}$$

②



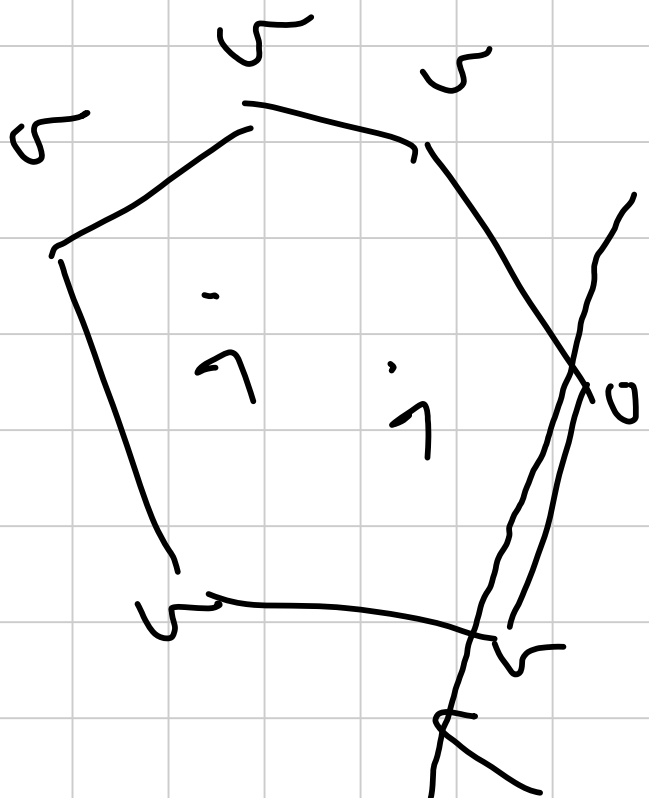
manofabis

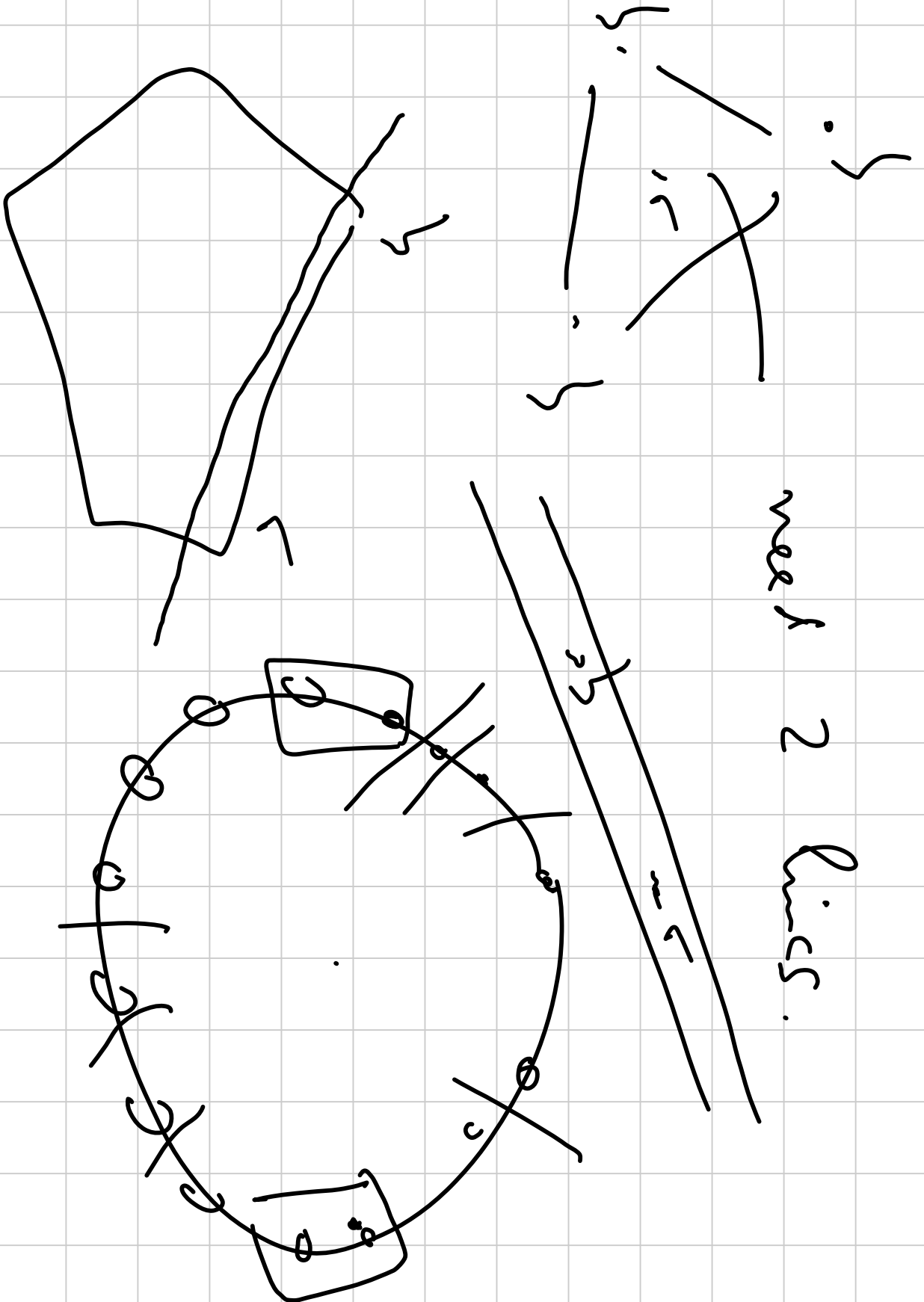
1

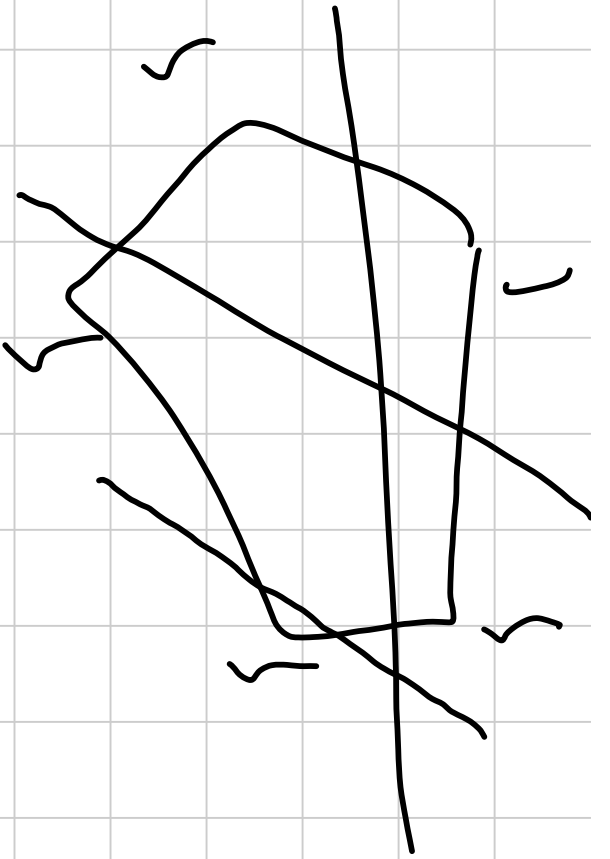


Separation with

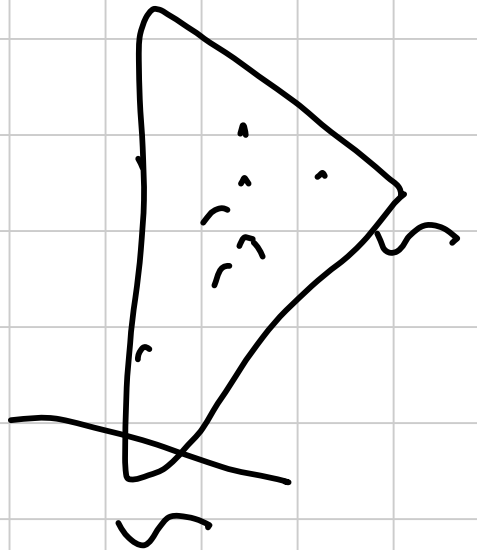
$$r + k = N$$







1



1