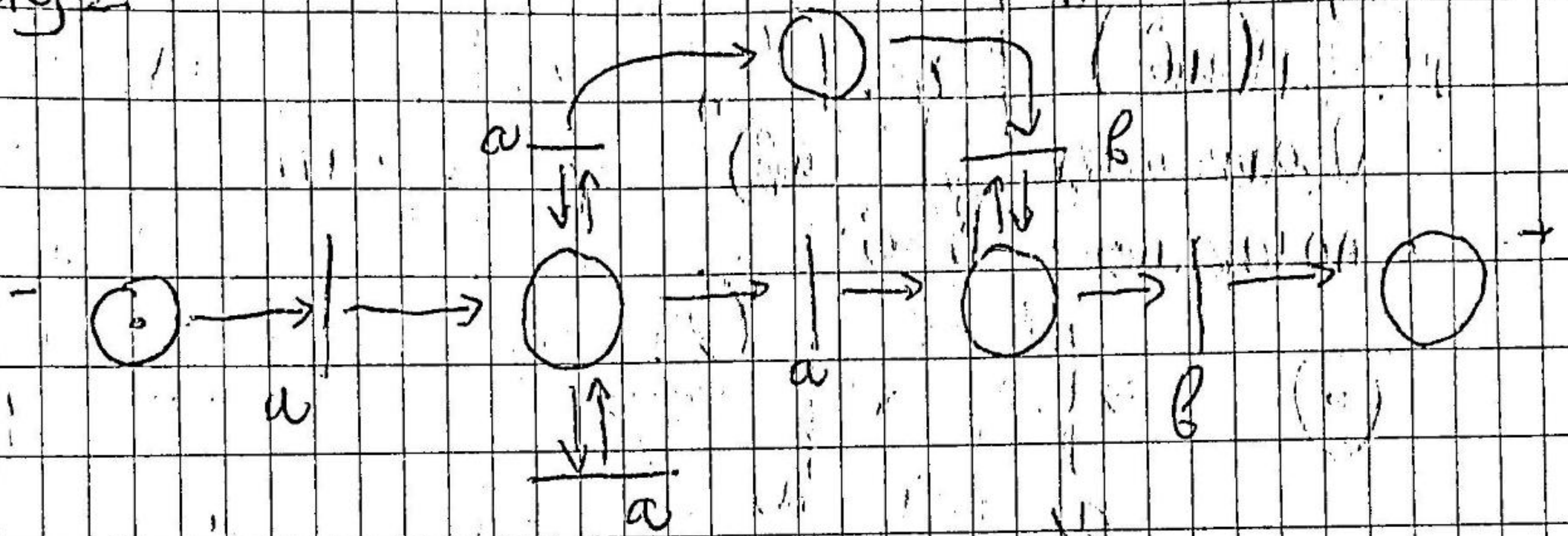


06.12.2022 X agu.
6. y. 20.

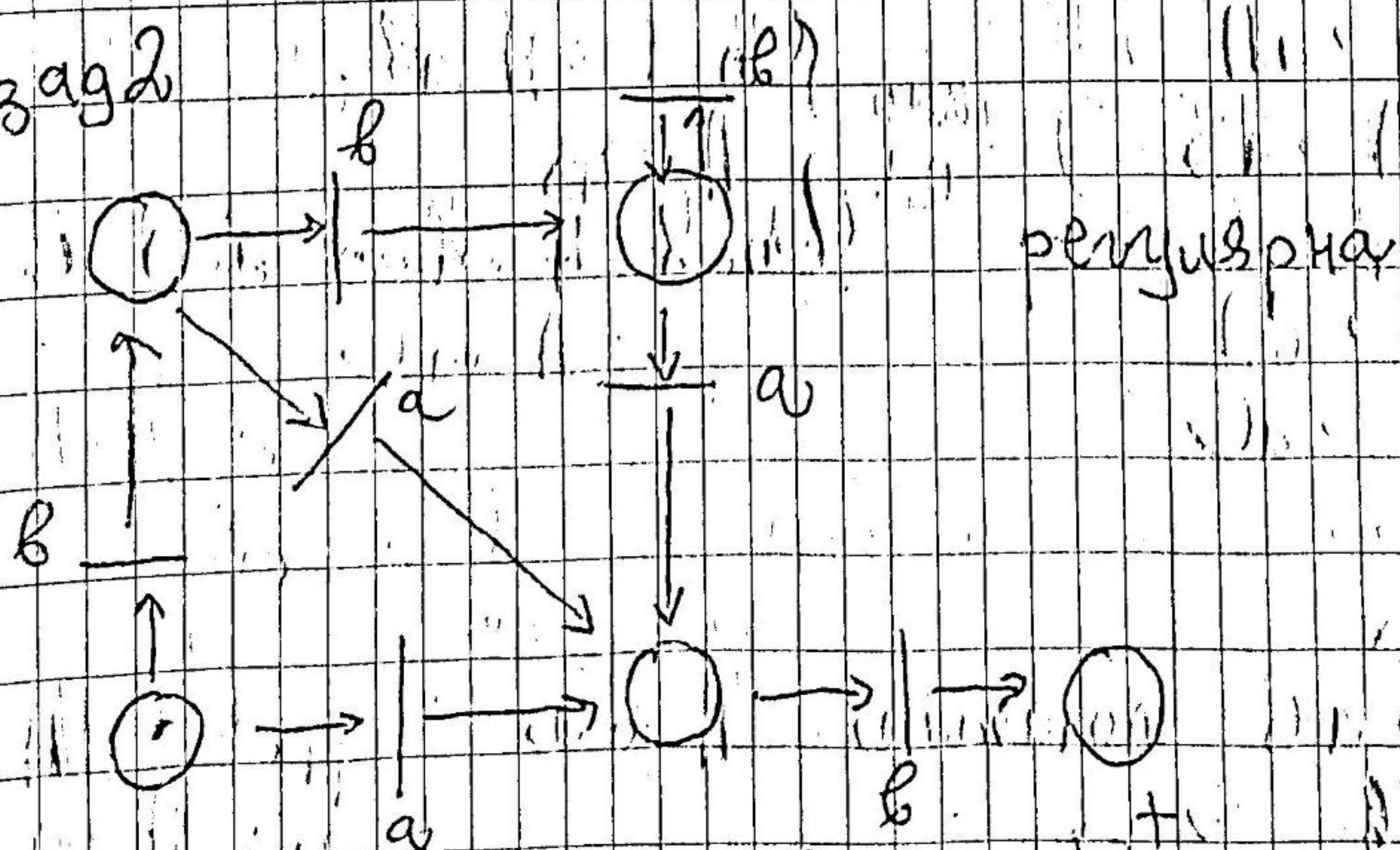
заг 1



aaab

$$L = \{a^m a^n a b^n b \mid m \geq 0, n \geq 0\}$$

заг 2



регулярна ирежа - всеки пр. влиза и излиза
по 1 дъга

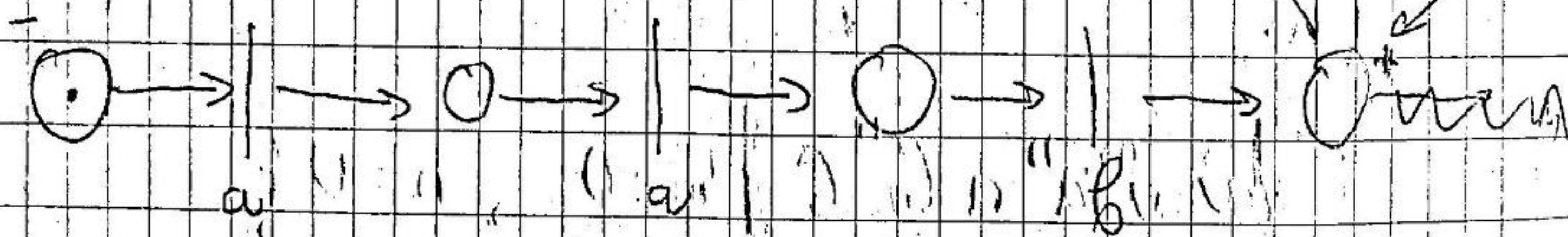
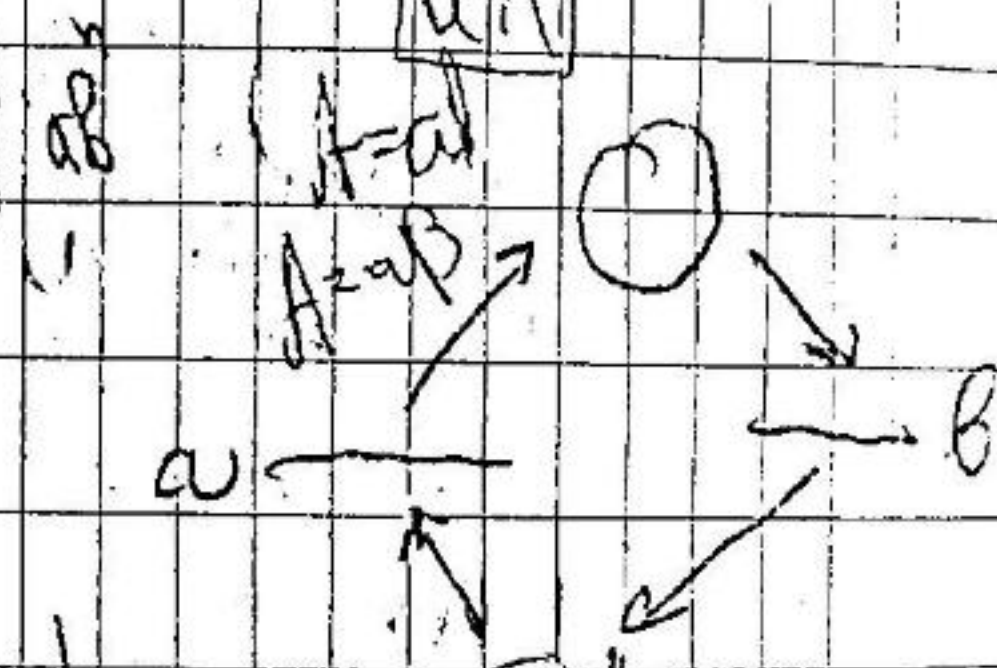
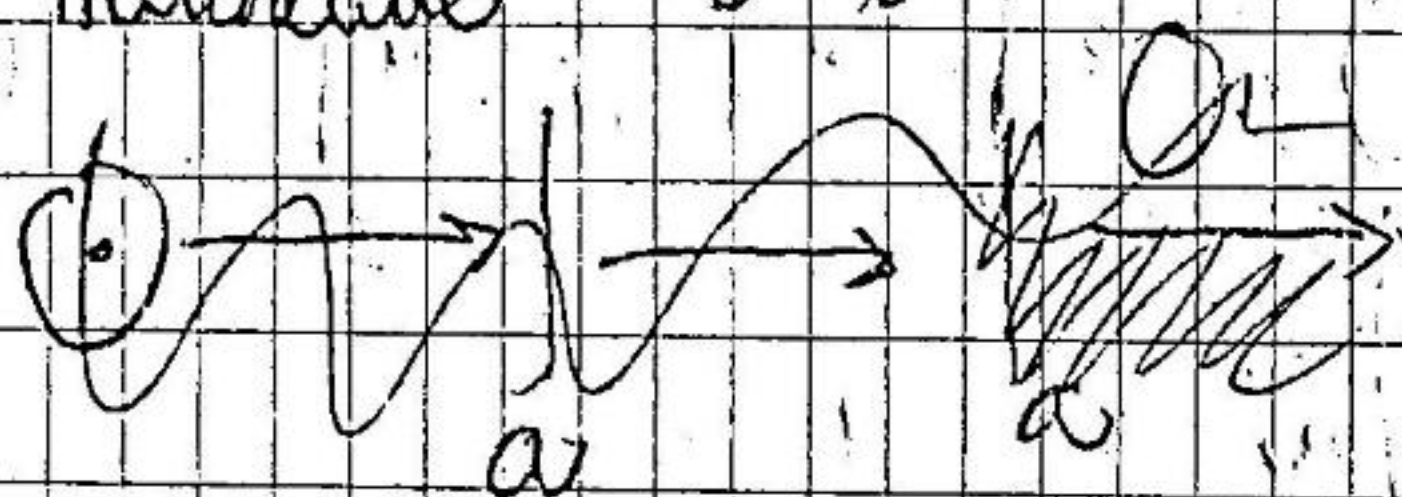
\star $+$ \wedge | получаем выражения
 $A \rightarrow \rightarrow a$
 $\rightarrow aA$

$$\begin{aligned}
 L &= ab + bbb^*ab + baab = (1 + bbb^* + b)ab = \\
 &= (1 + b(bbb^* + 1))ab = \\
 &= (1 + bbb^*)ab = \\
 &= b^*ab
 \end{aligned}$$

$1 + RR^* = R^*$

zab^3
 $L = a(ab)^n$ $n \geq 1$
 базисные $A = (ab)^n$
 символы $B = b$

$p_1: S \rightarrow aA$
 $A = (ab)^n$



- $p_1: S \rightarrow aA$
- $p_2: A \rightarrow aB$
- $p_3: B \rightarrow b$
- $p_4: C \rightarrow bA$
- $p_5: A \rightarrow aC$

или $\begin{cases} n=1 \Rightarrow A=ab \\ A=aB \end{cases}$

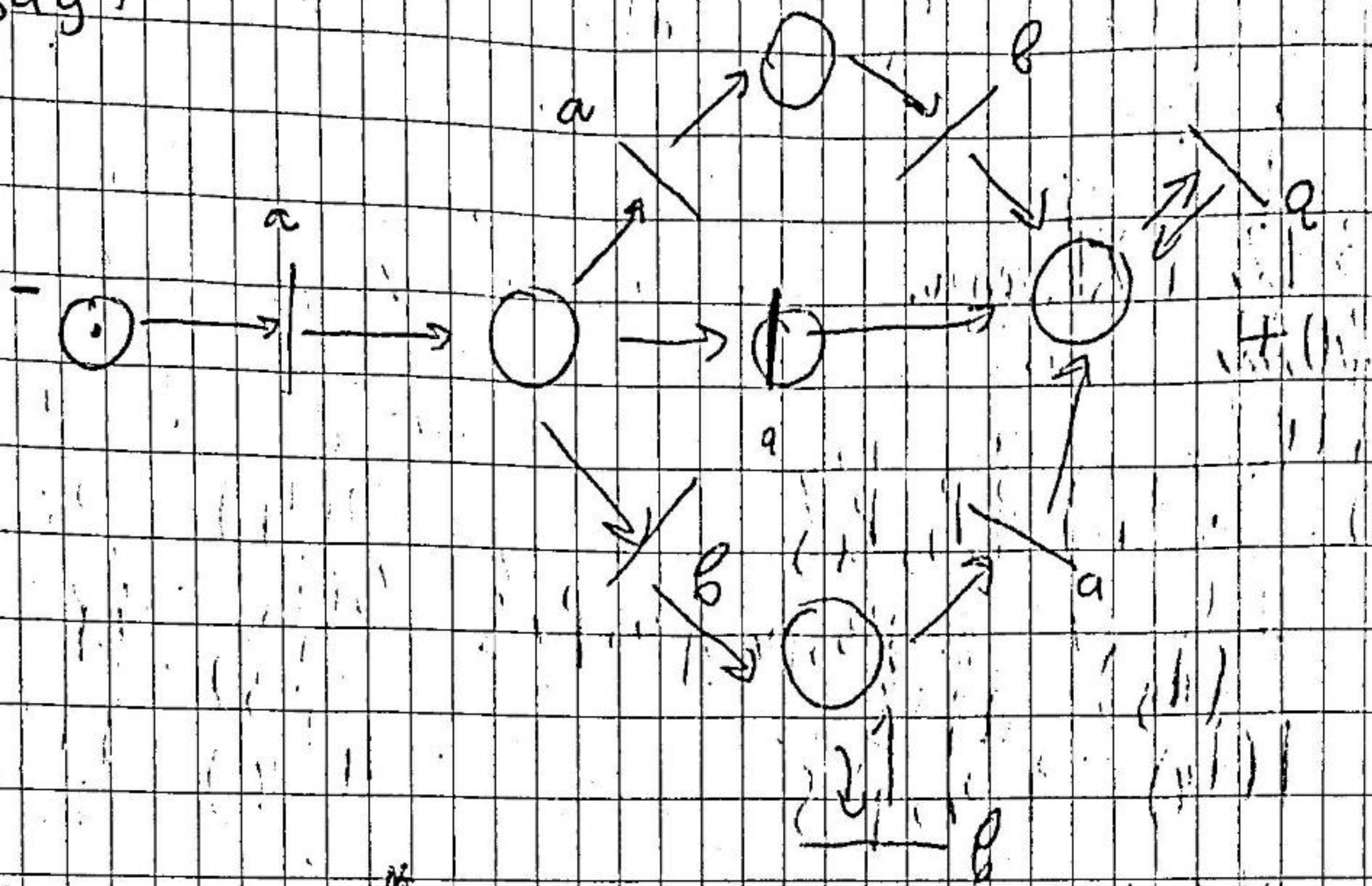
$n=2 \Rightarrow A=abab = a(bA)C$ $n \geq 2$
 $A=aC$

$L = b^*ab$ (базисные) $A = b^*a$
 $L = AB \Rightarrow$
 базисные $A = b^*a$
 $1. b^* \neq 1$ $A=a$
 $2. b$ $A=ba = BA$

$p_1: S \rightarrow AB$
 $p_2: A \rightarrow a$
 $p_3: A \rightarrow BA$

усп 4.

заг 4



$$L = aab^*a^* +$$

$$+ aab^*a^* +$$

$$+ ab^*a^*$$

$$L = a(ab^*a^* + a + ab^*a^*)a^*$$

$$L = aab^*a^* + aab^*a^* + ab^*a^*a^*$$

$$L = a(ab^* + a + ab^*a^*)a^*$$

$$F =$$

$$L = Fa^*$$

$$n=0 \quad L = F$$

$$n=1 \quad L = Sa$$

$$F = a(ab^* + a + ab^*a^*) = aB$$

$$B = ab^* + a + ab^*a^*$$

$$\Rightarrow B = ab^* + a + ab^*a^*$$

$$B = a0$$

$$1) B = a$$

$$p_1: S \Rightarrow F \text{ и } D \Rightarrow b$$

$$p_2: S \Rightarrow Sa \text{ и } D \Rightarrow b$$

$$p_3: F \Rightarrow aB$$

$$p_4: B \Rightarrow a$$

$$p_5: B \Rightarrow aC$$

$$p_6: C \Rightarrow b$$

$$2) B \Rightarrow Da$$

покажем 4 манера

символ

$$3) B = ab^*a^*$$

$$D$$

$$L = a(ab)^n$$

$$A = (ab)^n$$

$$n=1 \quad A=ab$$

$$B=B$$

$$P_1 = S \rightarrow aA$$

$$P_2 = A \rightarrow aB$$