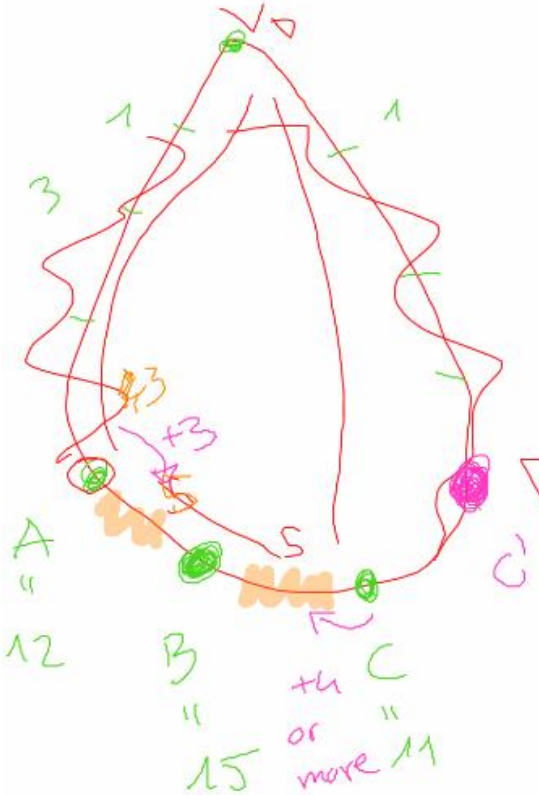
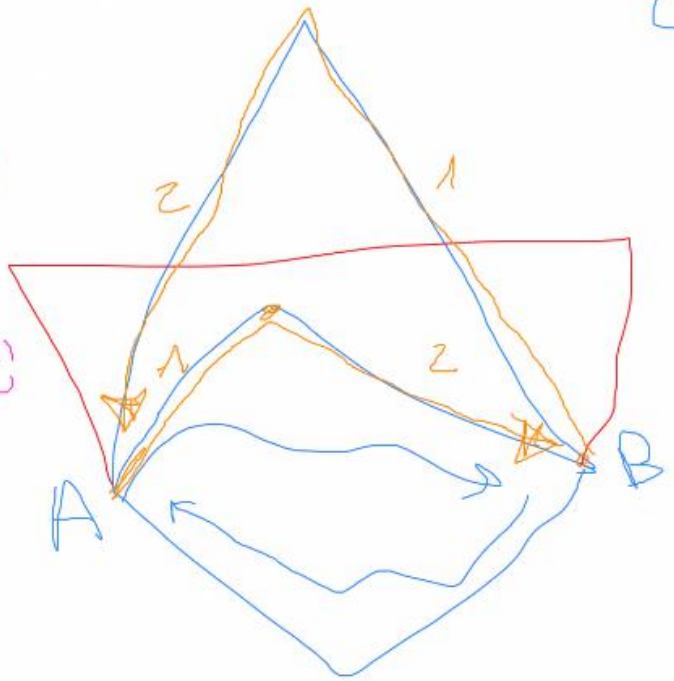
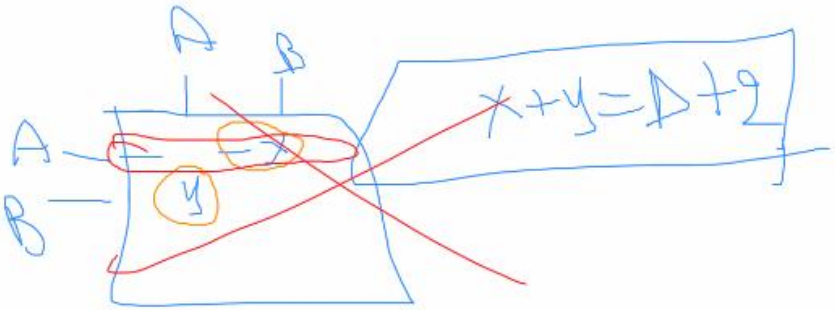


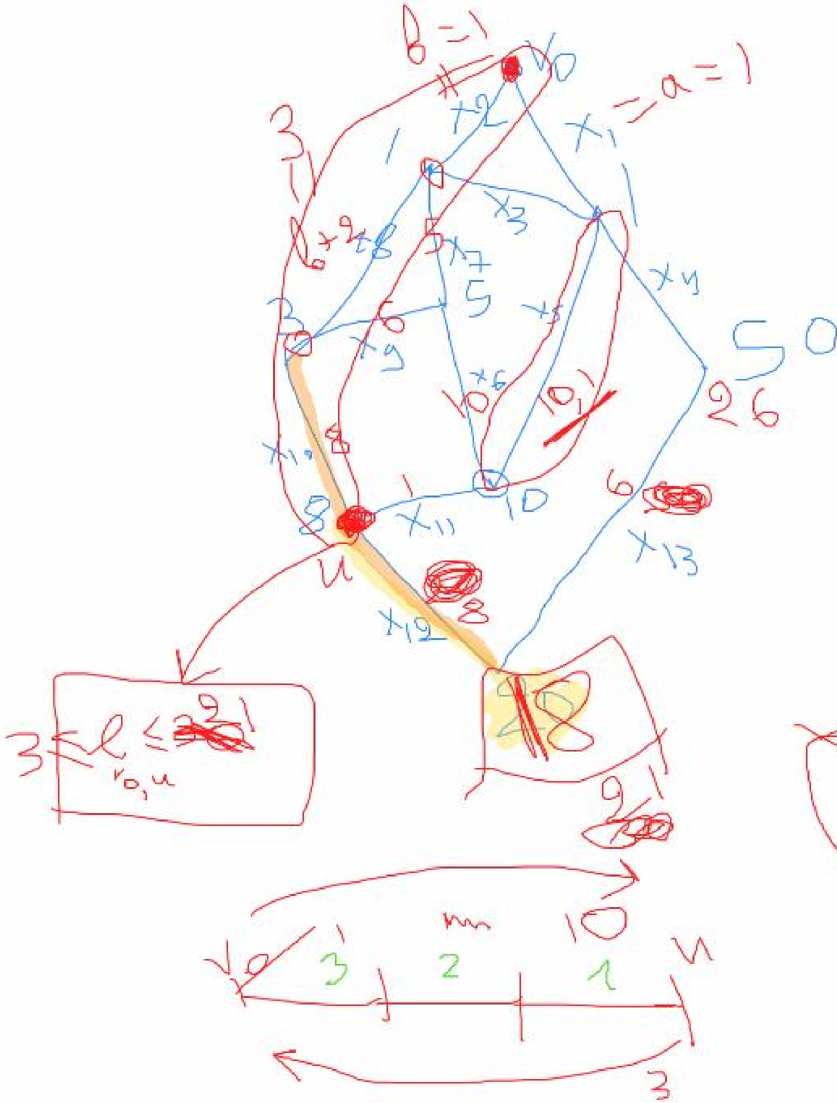




$x = 2$ → from A to B

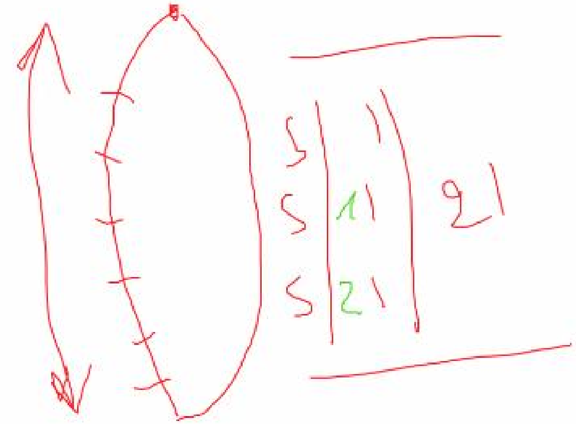
$y = 2$ → from B to A

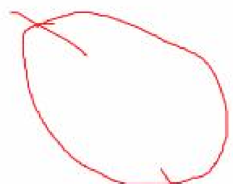
$x + y = 4$

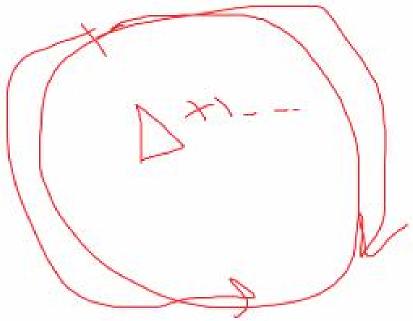


$$X_{12} - X_{10} = 12$$

$$\begin{cases} x_{13} = x_{12} + 30 \\ \text{OR} \\ x_4 = \begin{cases} x_1 + 49 \\ x_3 + 49 \\ x_5 + 40 \end{cases} \end{cases}$$

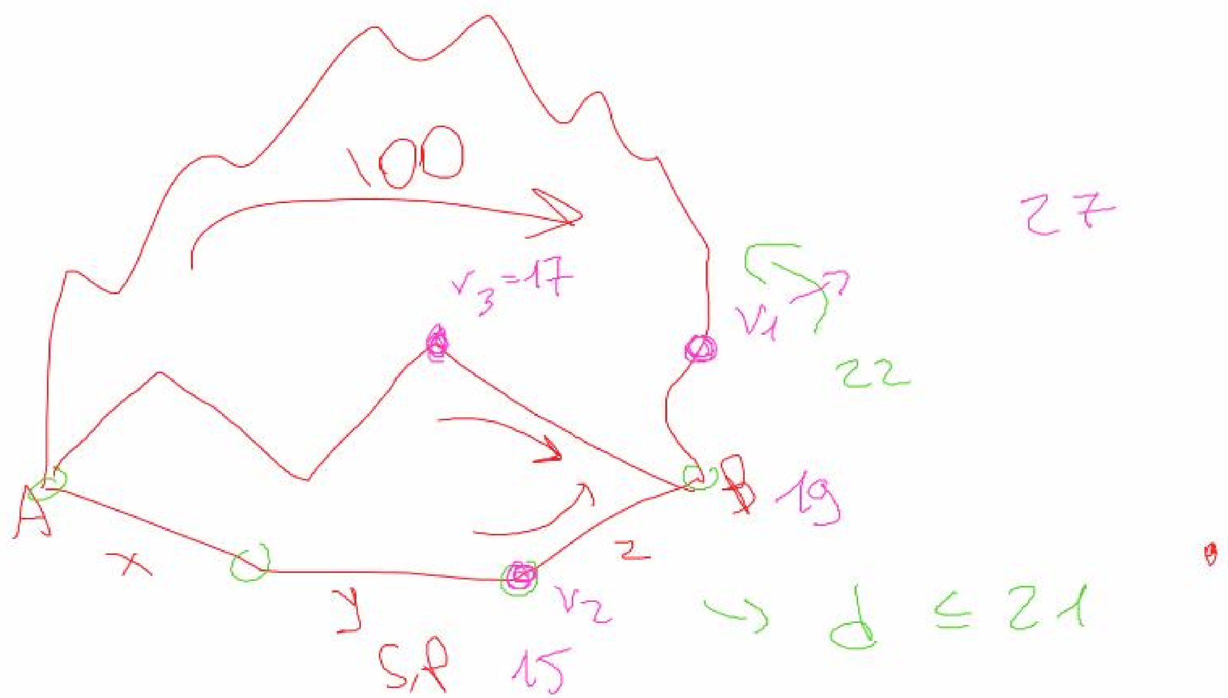






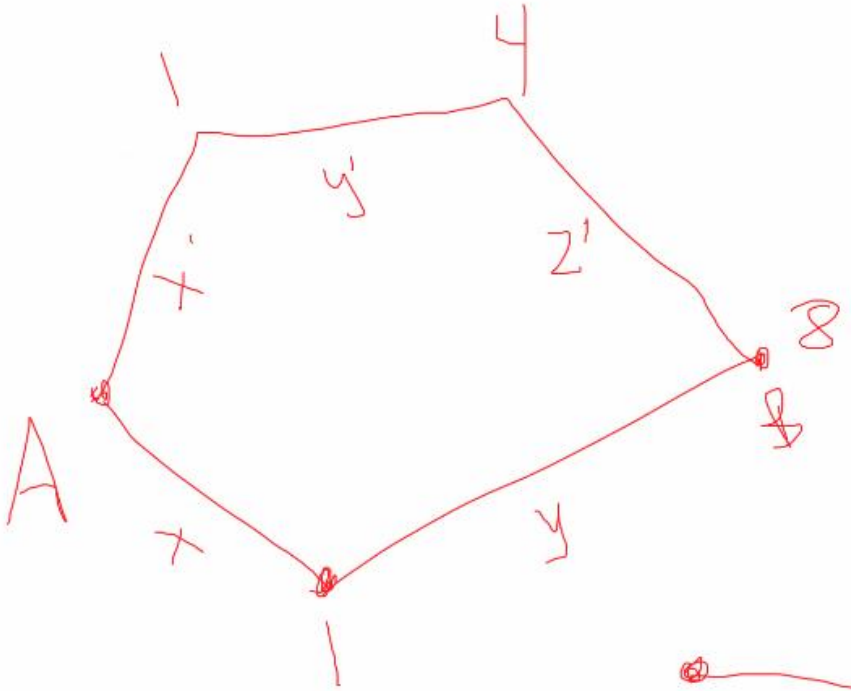
5 4 → 10

5 5 → 11

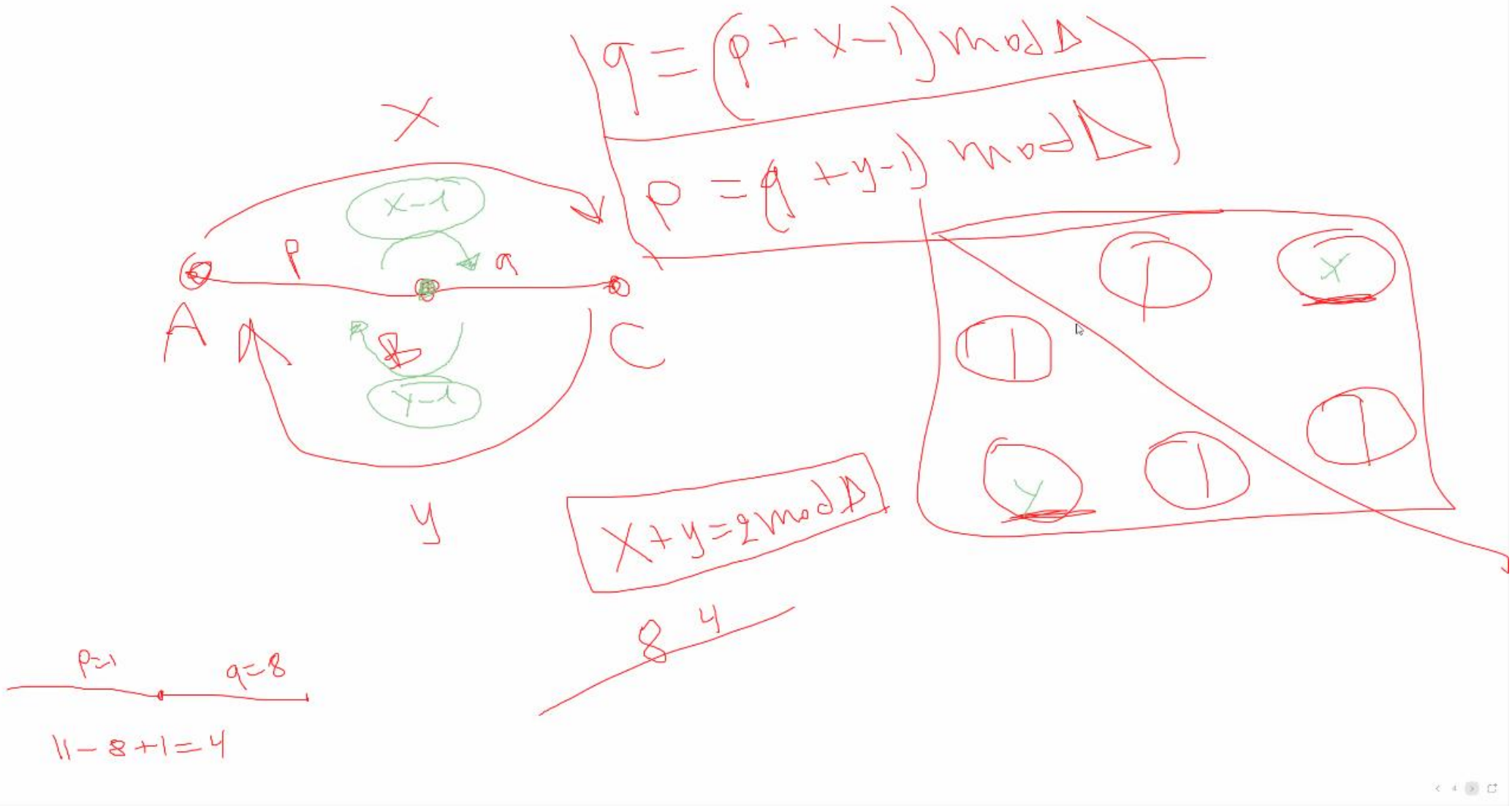


100
$v_3 = 17$
27
v_1
22
A
B
19
x
y
z
v_2
$\to d \leq 21$
S.P
15

$y' = x' + 3$



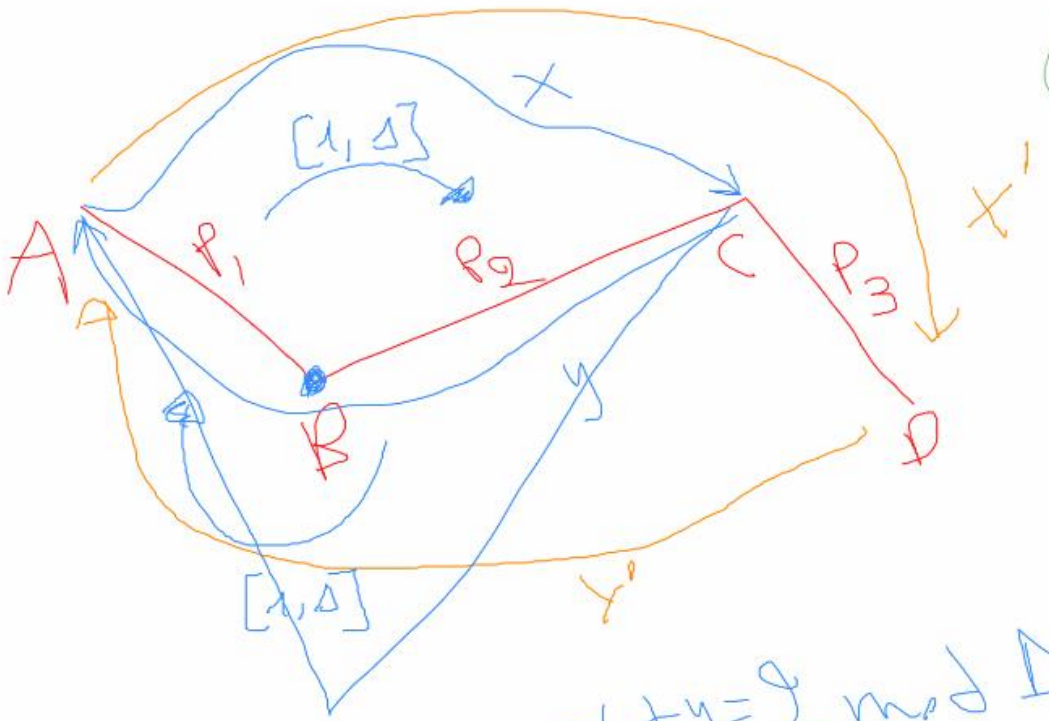
$$\begin{cases} y = x + 7 \\ z' = y' + 4 \end{cases}$$

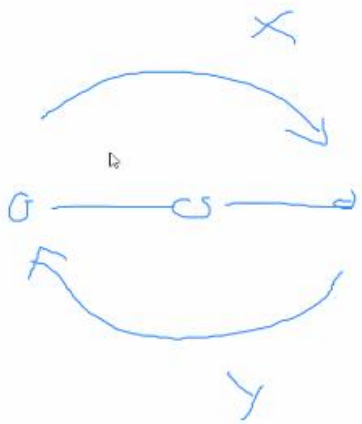

q = (p + x − 1) mod Δ
p = (q + y − 1) mod Δ
X
x−1
p
q
A
C
y−1
y
X + y = 2 mod Δ
8 4
1
x
1
1
y
1
p=1
q=8
11 − 8 + 1 = 4

if $p_2 > p_1$

$(p_2 - p_1) + (p_1 - p_2) = \Delta$

$(p_3 - p_2) + (p_2 - p_3) = \Delta$

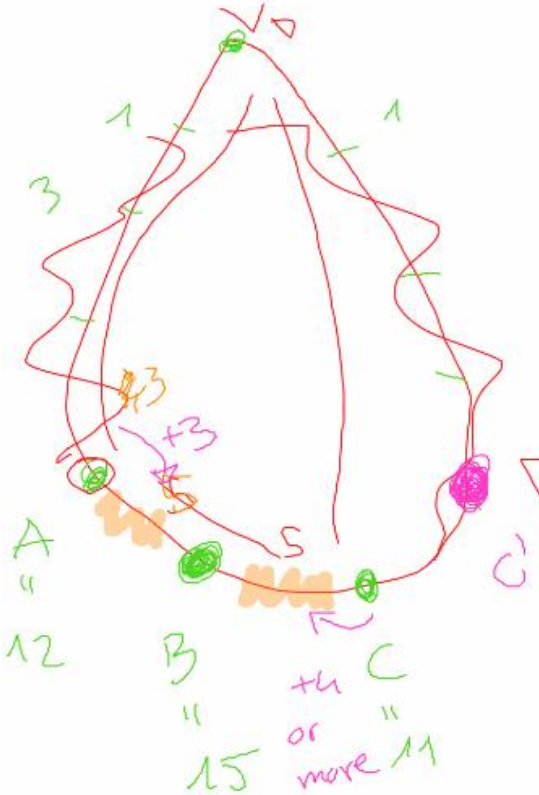


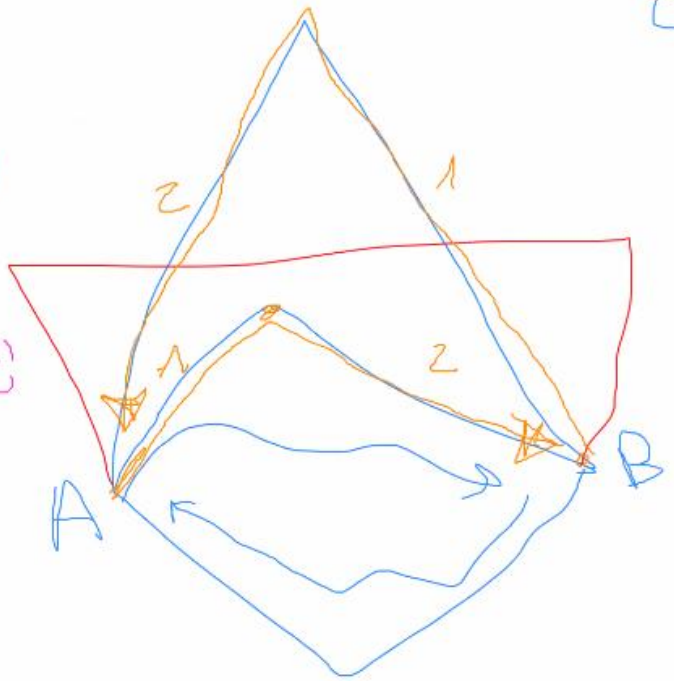


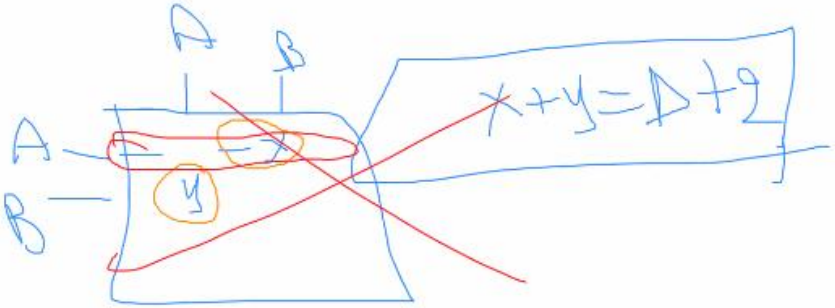
$x + y = 2 \bmod \Delta$

$= \Delta + 2$

$x' + y'$



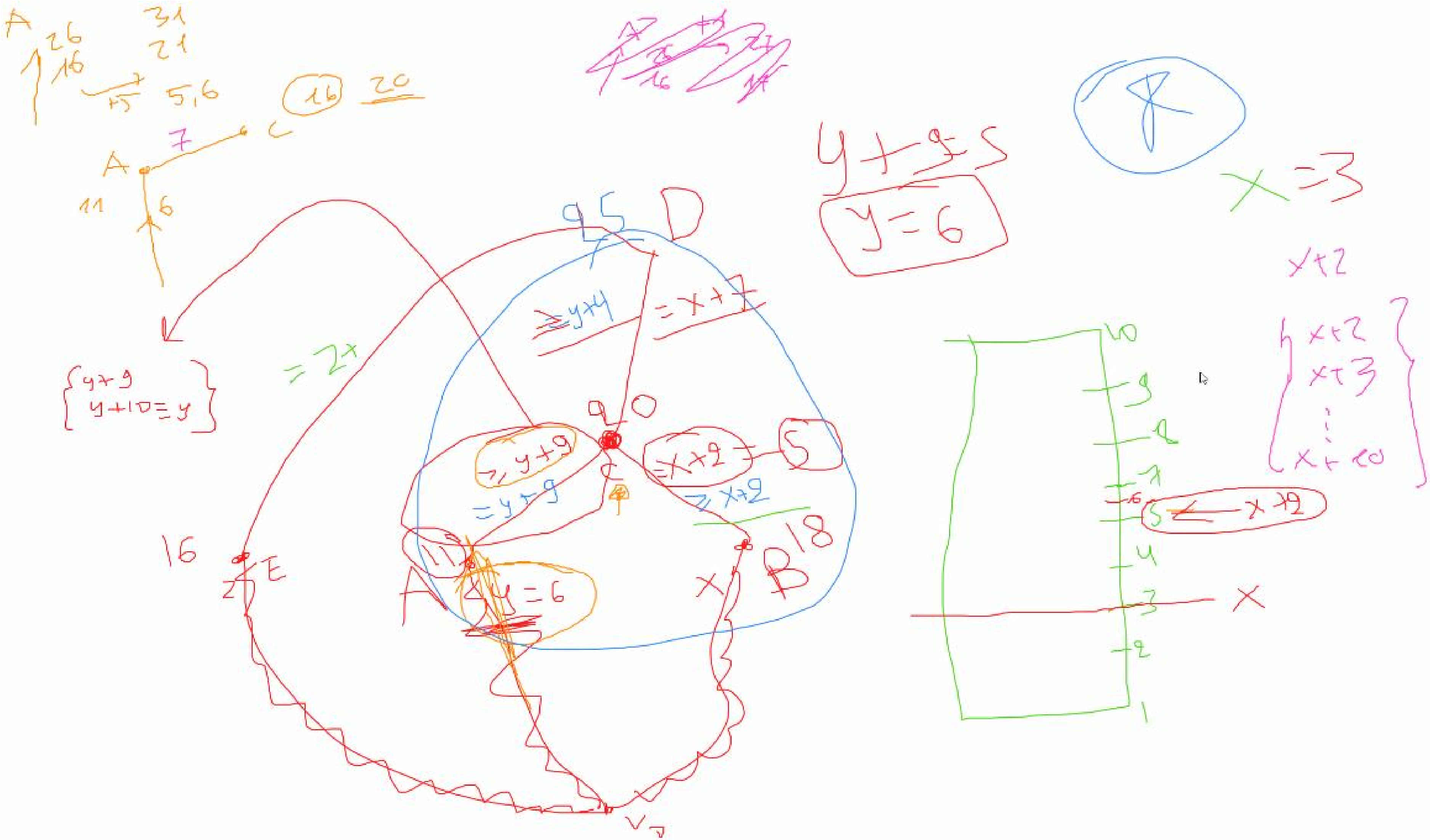




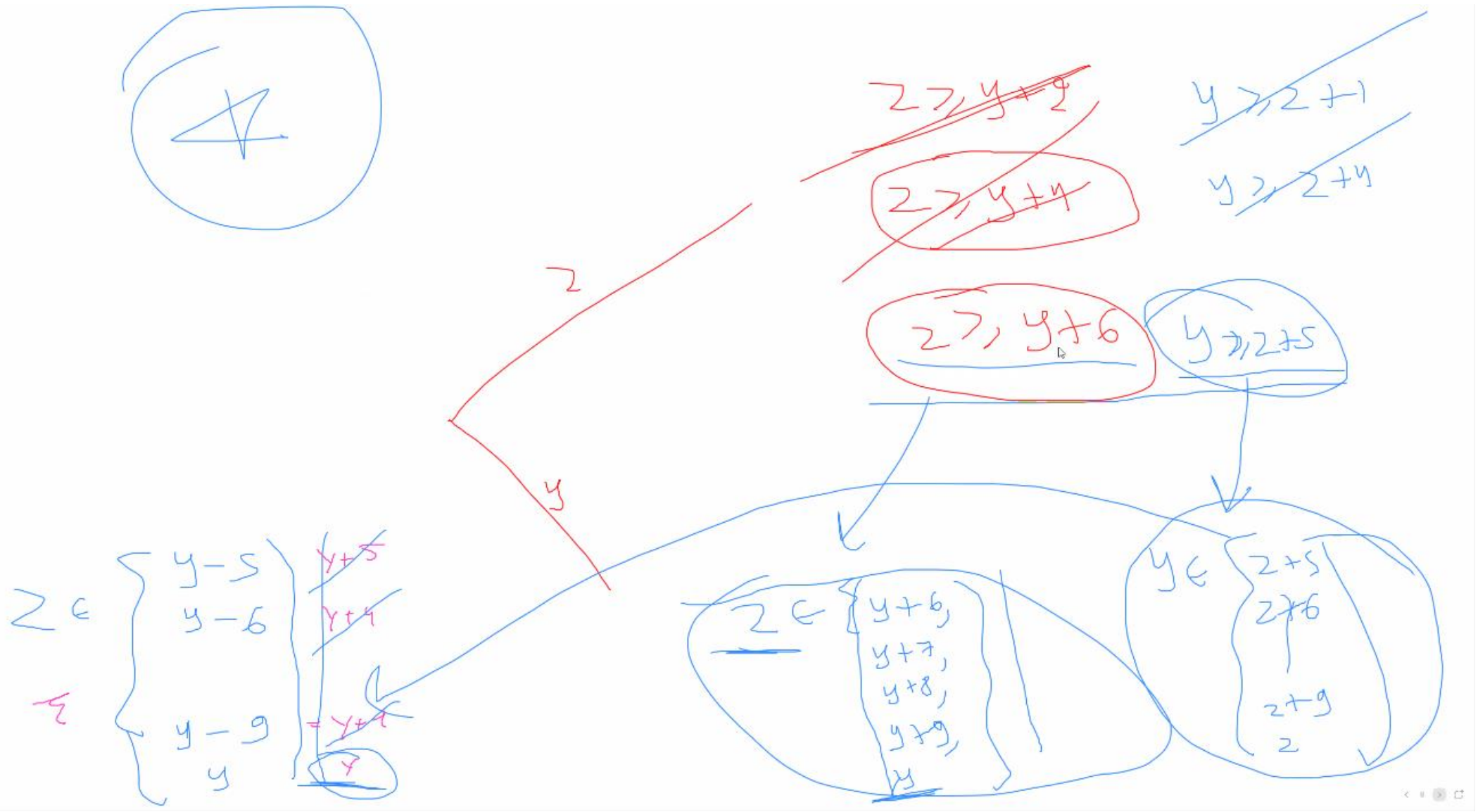
$x = 2$ → from A to B

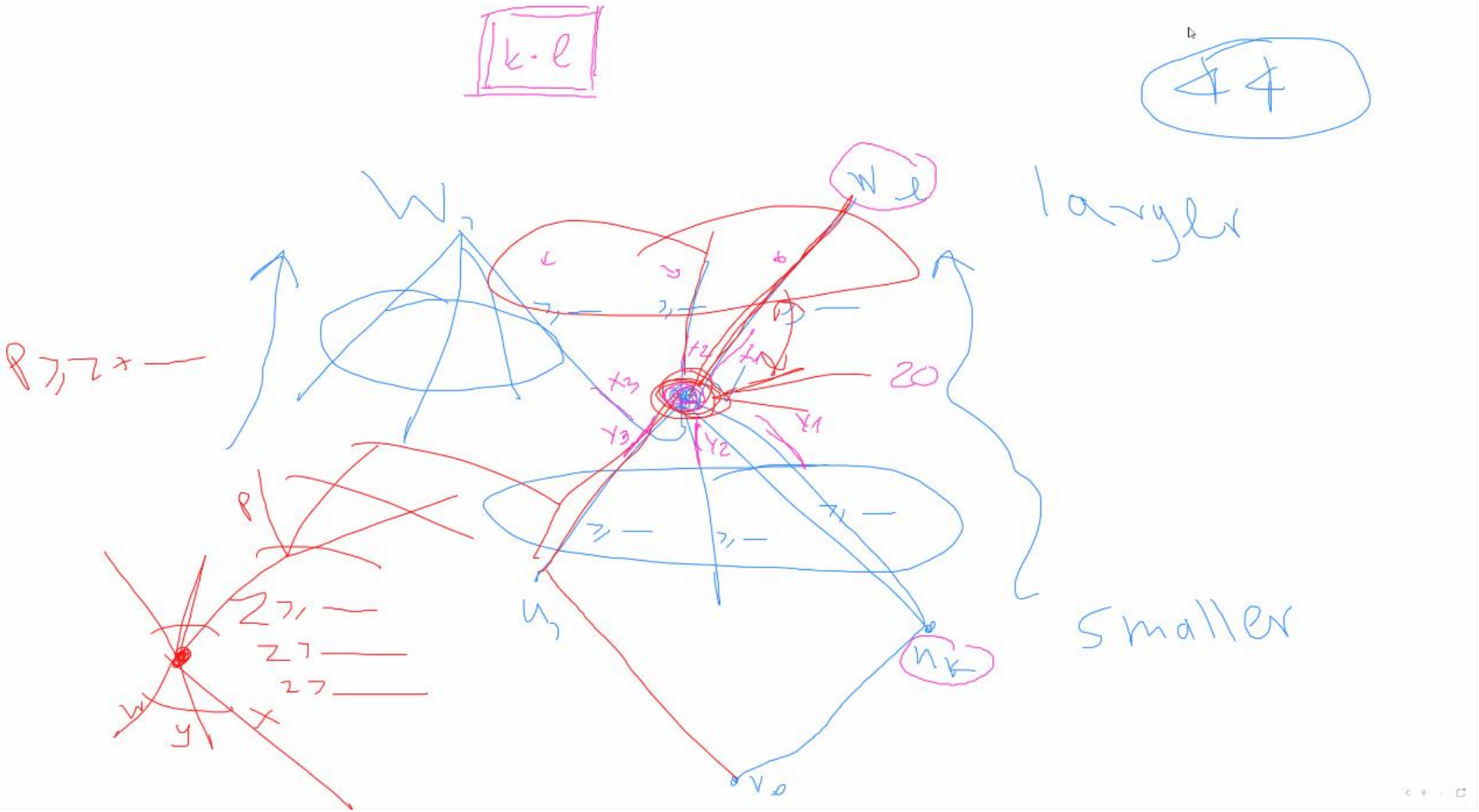
$y = 2$ → from B to A

$x + y = 4$



y + 9 = 5
y = 6
x = 3
x+2
x+2
x+3
x+10
= y+4
= x + 7
= 2x
y+9
y+10 = y
= y+9
= x+2
16
18
E
A
B
D
C
y = 6


z
y
z ≥ y+9
z ≥ y+4
y ≥ z+1
y ≥ z+4
z ≥ y+6
y ≥ z+5
z ∈ { y−5, y−6, y−9, y }
y+5
y+4
y+9
y
z ∈ { y+6, y+7, y+8, y+9, y }
y ∈ { z+5, z+6, z+9, z }


k-l
44
larger
smaller
20