$F = 1$ kB

$MSS = 100$ B

$SSTH = 400$ B

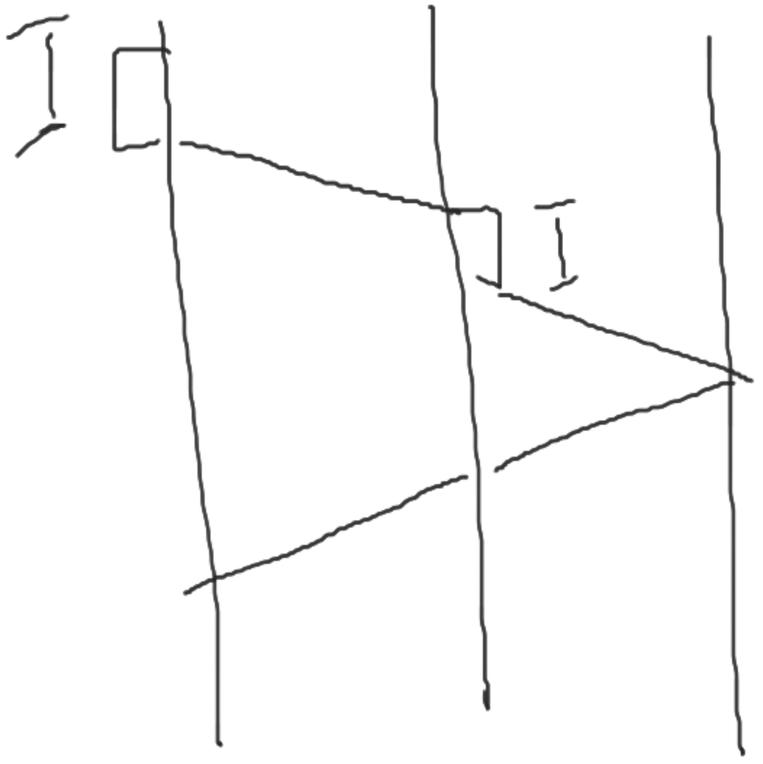
$RCWN = 4000$ B

$$\frac{W_{MAX} \cdot MSS}{RTT} = C_1$$

$$W_{MAX} = \frac{C_1 \cdot RTT}{MSS}$$

$$RTT = \frac{MSS}{C1} + 4\tau + \frac{MSS}{C2} =$$

A R B



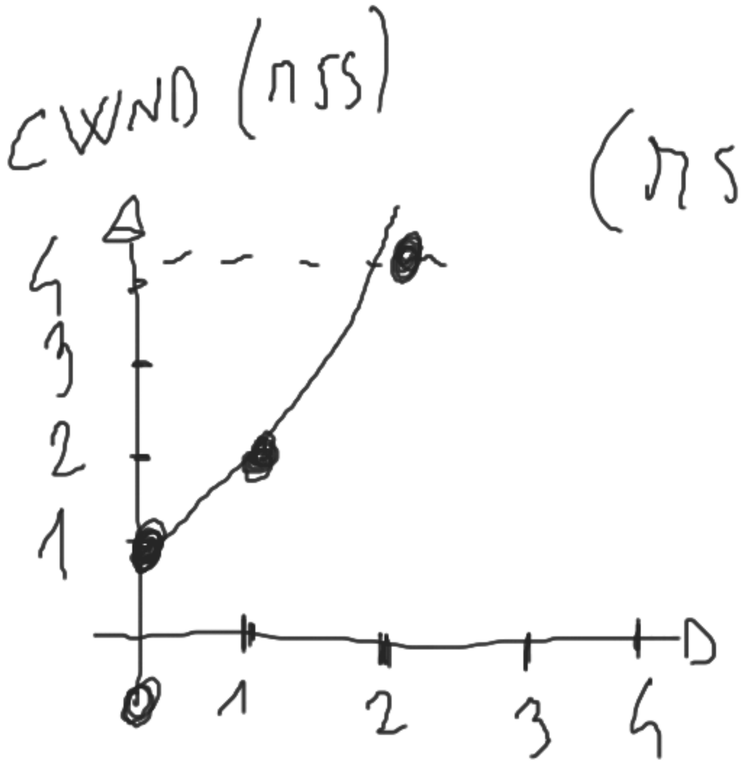
$$= \frac{10\phi \cdot 8^2}{4\phi \cdot 10^6} + \frac{10\phi \cdot 8}{8\phi \cdot 10^6} + 4 \cdot 10^{-6} =$$

$$= 20\,\mu s + 10\,\mu s + 4\,\mu s =$$

$$= 34\,\mu s$$

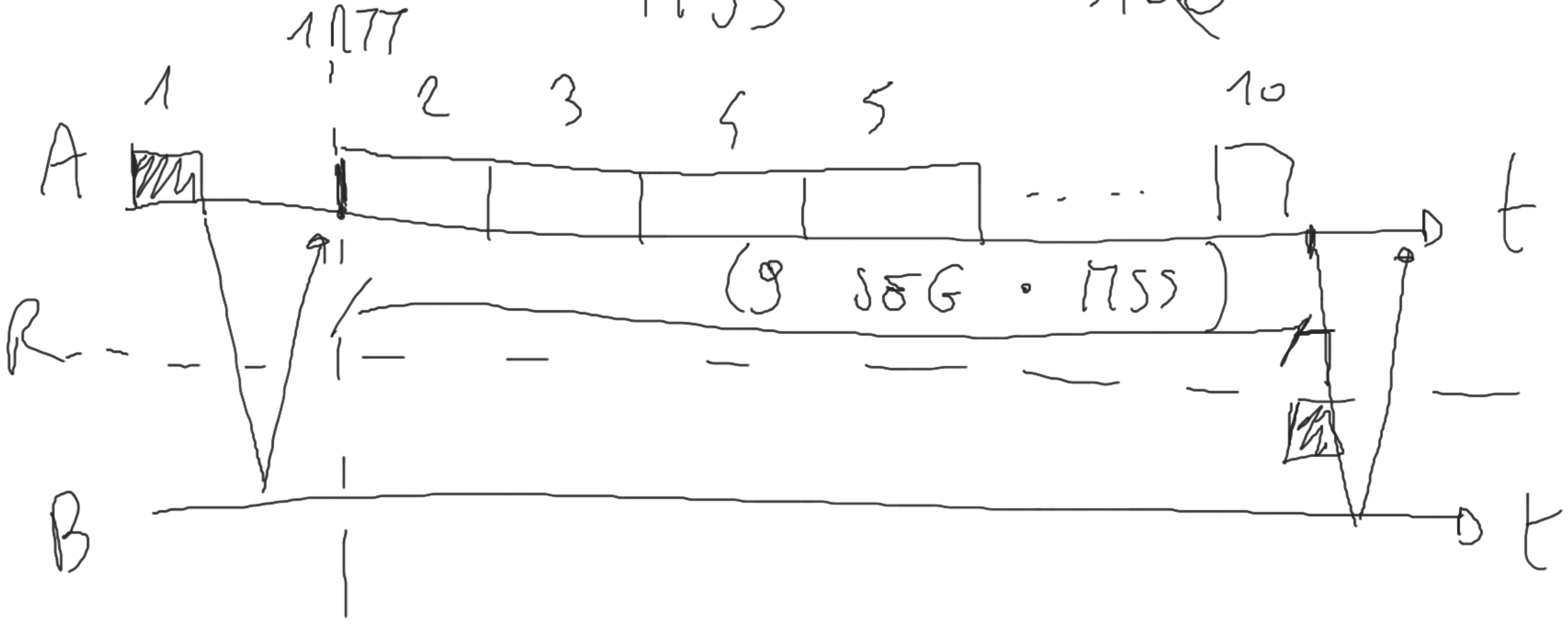
$$W_{MAX} = \frac{C_1 \cdot RTT}{MSS} = \frac{40 \cdot 10^6 \cdot 3{,}4 \cdot 10^{-6}}{100 \cdot 8_2} =$$

$$= 1{,}7$$



(MSS) CWND	TIME (RTT)
1	0
2	1

$$N_{SSG} = \frac{F}{MSS} = \frac{1000}{100} = 10$$

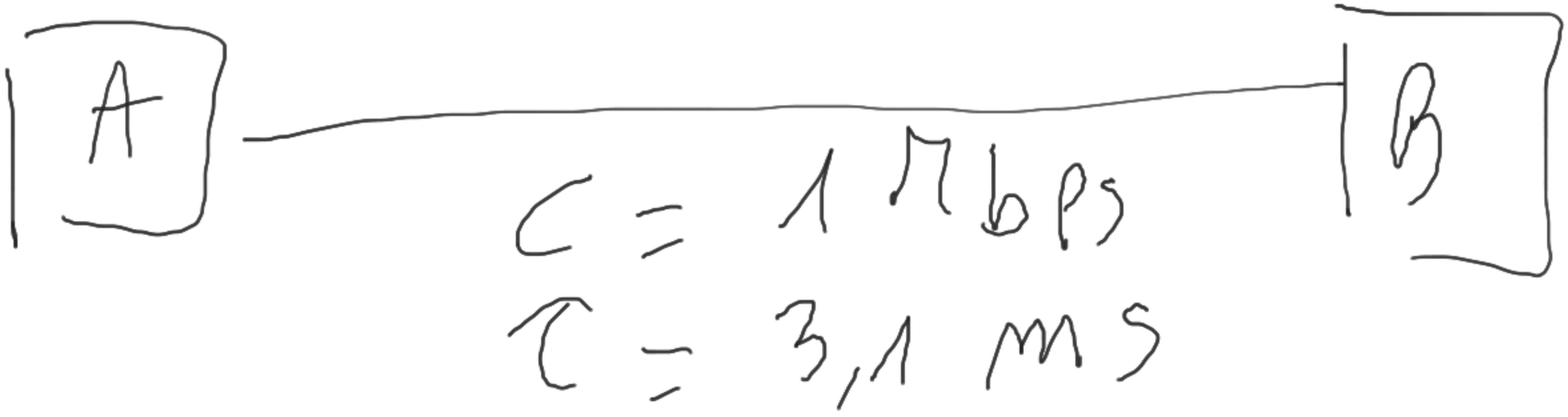


$$T_2 = RTT + \frac{9\,1755}{C_{11}} + 4\tau =$$

$$+ \frac{1755}{C_2}$$

$$= 34\mu + \frac{9 \cdot \cancel{100}^{20} \cdot \cancel{8}}{\cancel{5}\,50 \cdot 10^6} + 4\mu =$$

$$= 38\mu + 180\mu = 218\mu s$$



MSS = 1000 bit

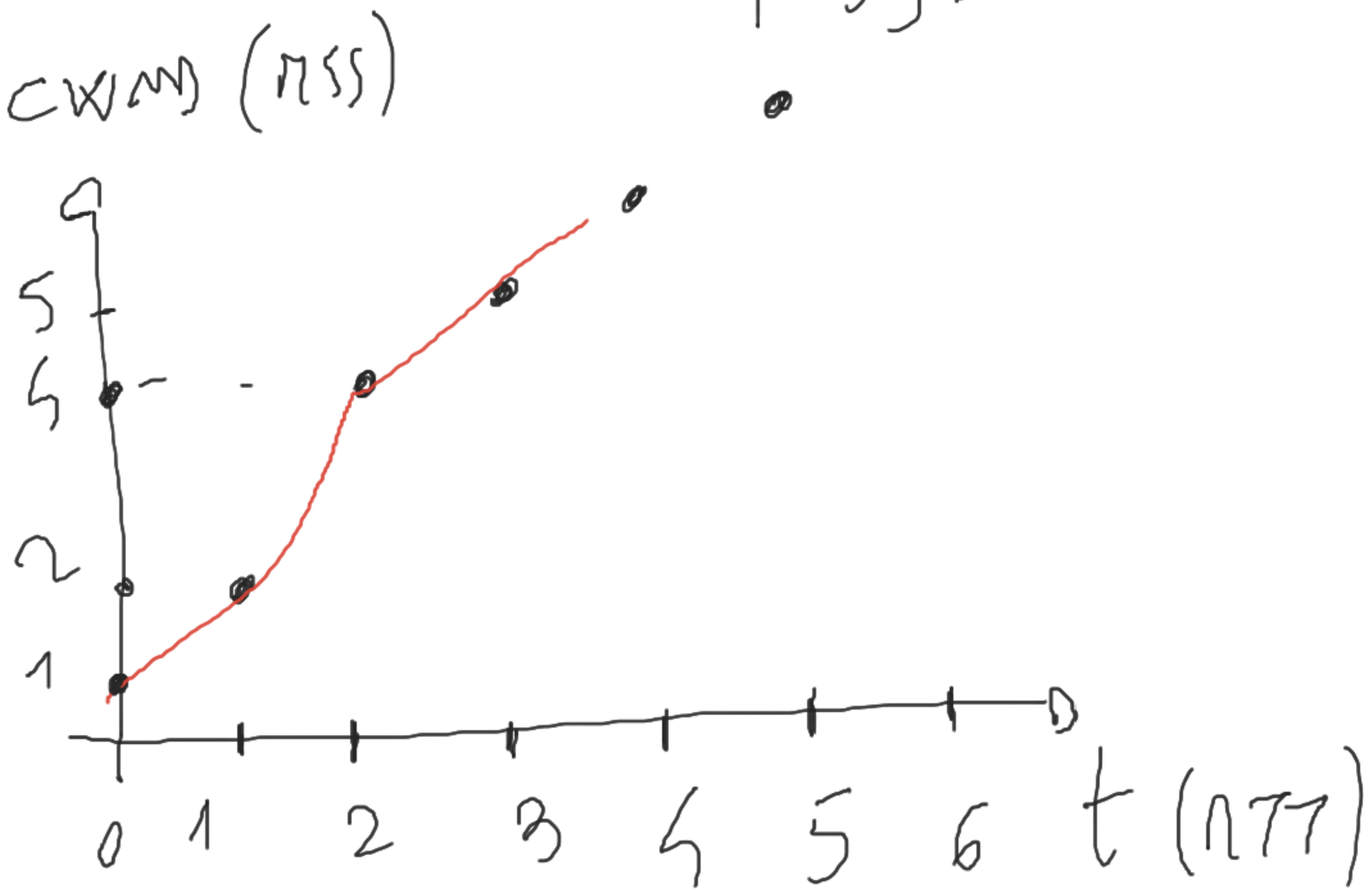
SSTH = 5 MSS

F = 100 MSS

$$\frac{W \cdot MSS}{RTT} = C$$

$$RTT = \frac{MSS}{C} + 2\tau = 7,2 \text{ ms}$$

$$W = \frac{RTT \cdot C}{MSS} = 7{,}2 \Rightarrow 8$$



cwnd	t
1	0
2	1
4	2
5	3
6	4
7	5

$$CWND = 8\ MSS \quad , \quad T = 6\ RTT$$

$$\Delta_F = F - 25 = 100 - 25 =$$

$$= 75\ MSS$$

$$T_{TOT} = 5\ RTT + \frac{75\ MSS}{C} + 2T$$

MSS = 500 B]

RTT = 500 ms]

RTO = 2 RTT

F = 39,5 KB

RCWND° = 12 KB

SSTH° = 8 KB

C·WND° = 500B

$t_1 = 35$ CONGESTIONE

$RCWND^\circ = \frac{12 \cdot 10^3}{0,5 \cdot 10^3} = 24$

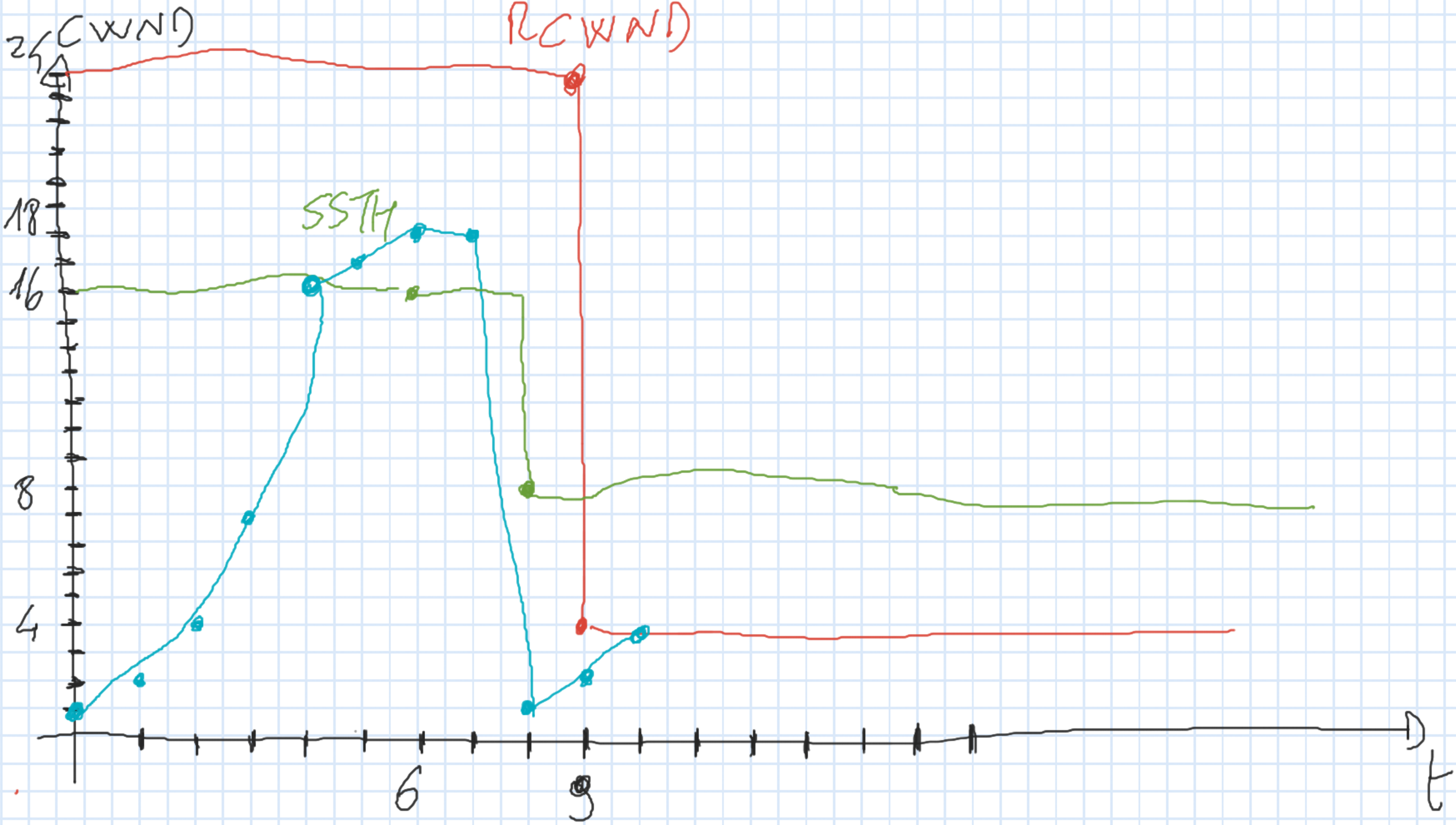
$SSTH^\circ = \frac{8 \cdot 10^3}{0,5 \cdot 10^3} = 16$

$cWND^\circ = 1$

$t_1 = \frac{3}{0,5} = 6$

$t_2 = \frac{5,5}{0,5} = 9$

$t_2 \Rightarrow RCWND = 2\,KB$


CWND
RCWND
SSTH
24
18
16
8
4
6
9
t