$$g(t) = \frac{1}{2\pi} \int G(j\omega) e^{j\omega t} d\omega$$

$$g(0) = \;'' \int G(j\omega) d\omega$$

$$\underbrace{\left[\quad F \quad \right]}_{10^3 \times} \left[\quad \right]$$

1m

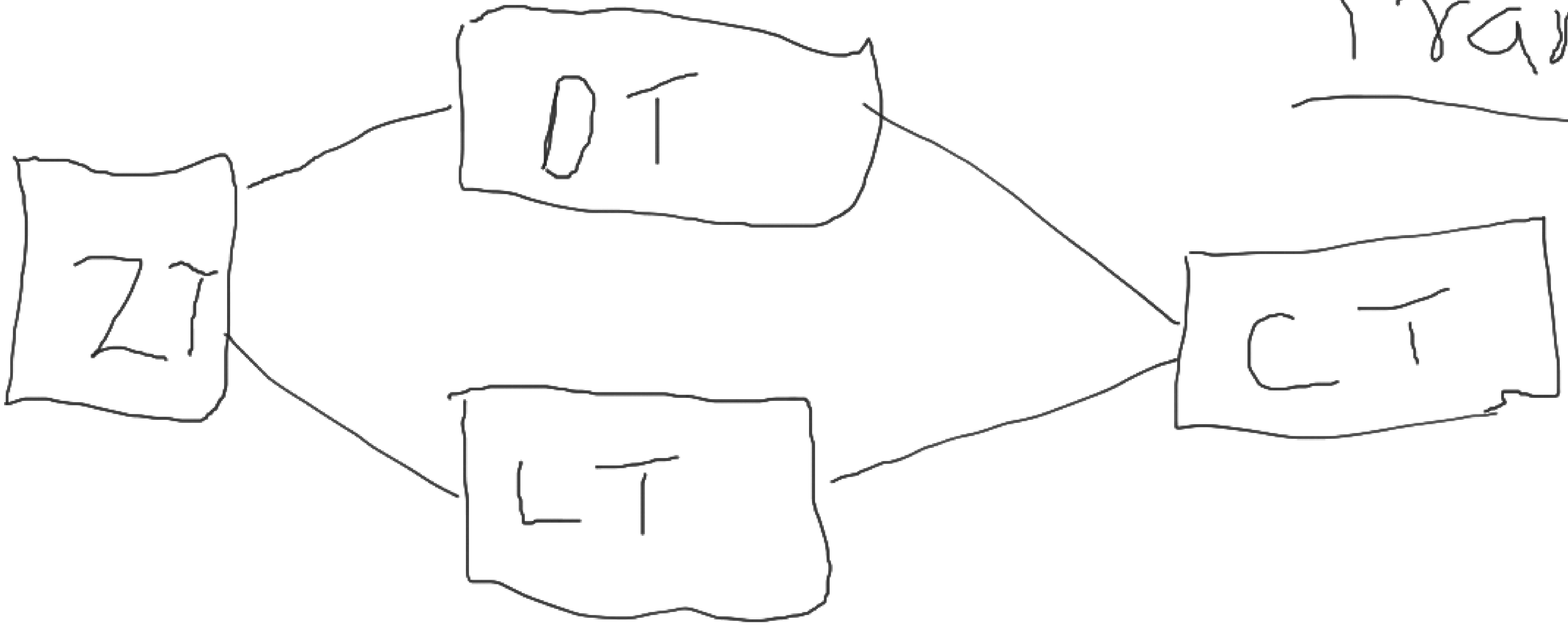
$10^3 \times \underline{\log_2 10^3} \neq 3K$

$= 10K$

$$2\left(2 f_{\frac{m}{2}} + O(m)\right)$$

$$2^2 f_{\frac{m}{2}} + \underbrace{2\,O\left(\frac{n}{2}\right)}_{\substack{\shortparallel \\ O(n)}}$$

Transf.



OP

$$\frac{1}{s+a}$$

$$\frac{P(s)}{Q(s)} = \underline{H(s)}$$

<u>T.F.</u>

$$L.T.\{h(t)\} = H(s)$$

$$y = x * h$$

$$Y(s) = X \cdot H$$

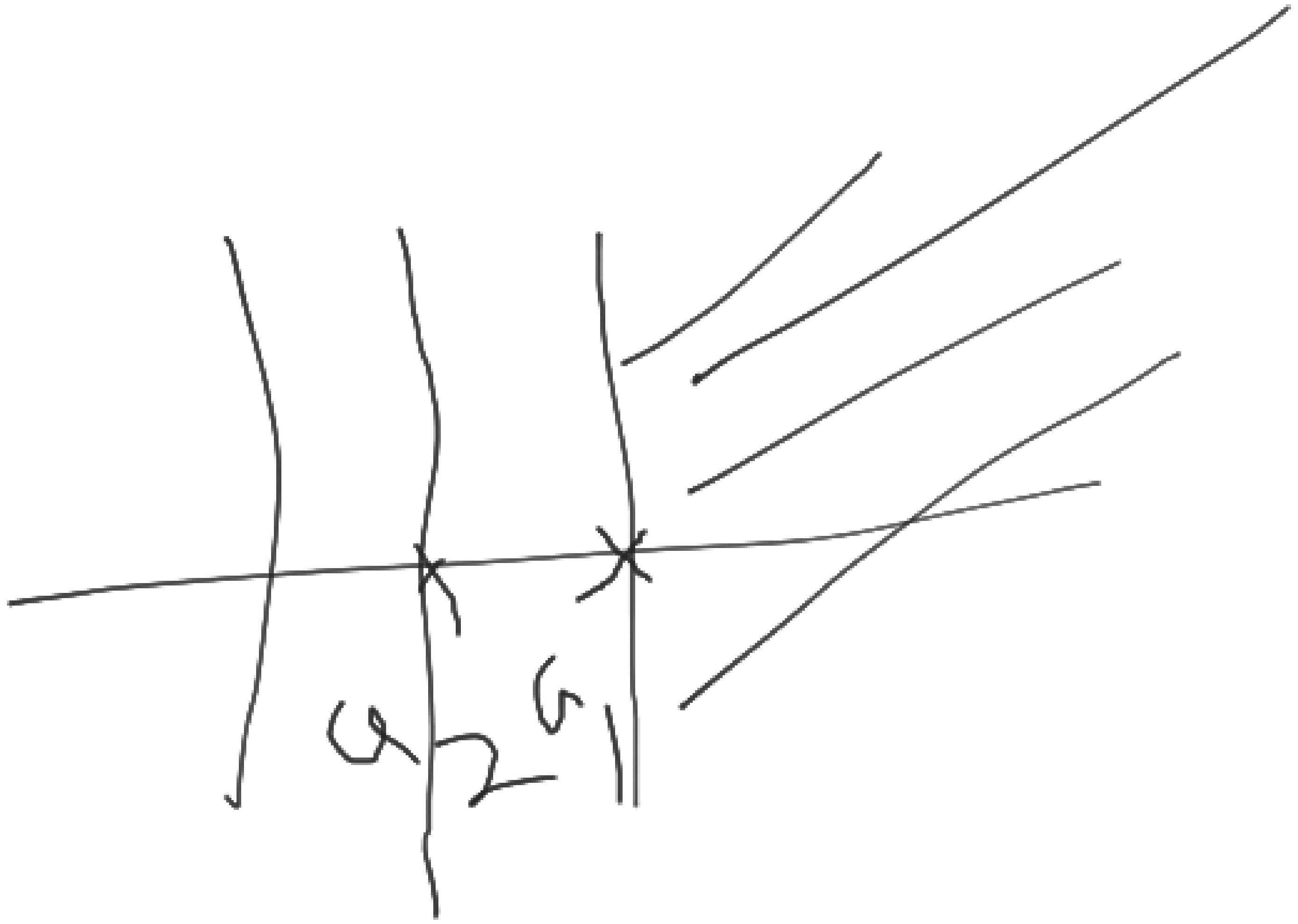
roots of $\{P(s)\} \to Z$

'' $\{Q(s)\} \to P$

$$e^{s_0 t} \longrightarrow \boxed{h} \longrightarrow \underline{H(s_0)e^{s_0 t}} = 0$$

$$\longrightarrow \boxed{} \longrightarrow H(p_0) \to \infty$$

$$X(s) = \int x(t)\, e^{-st}\, dt$$

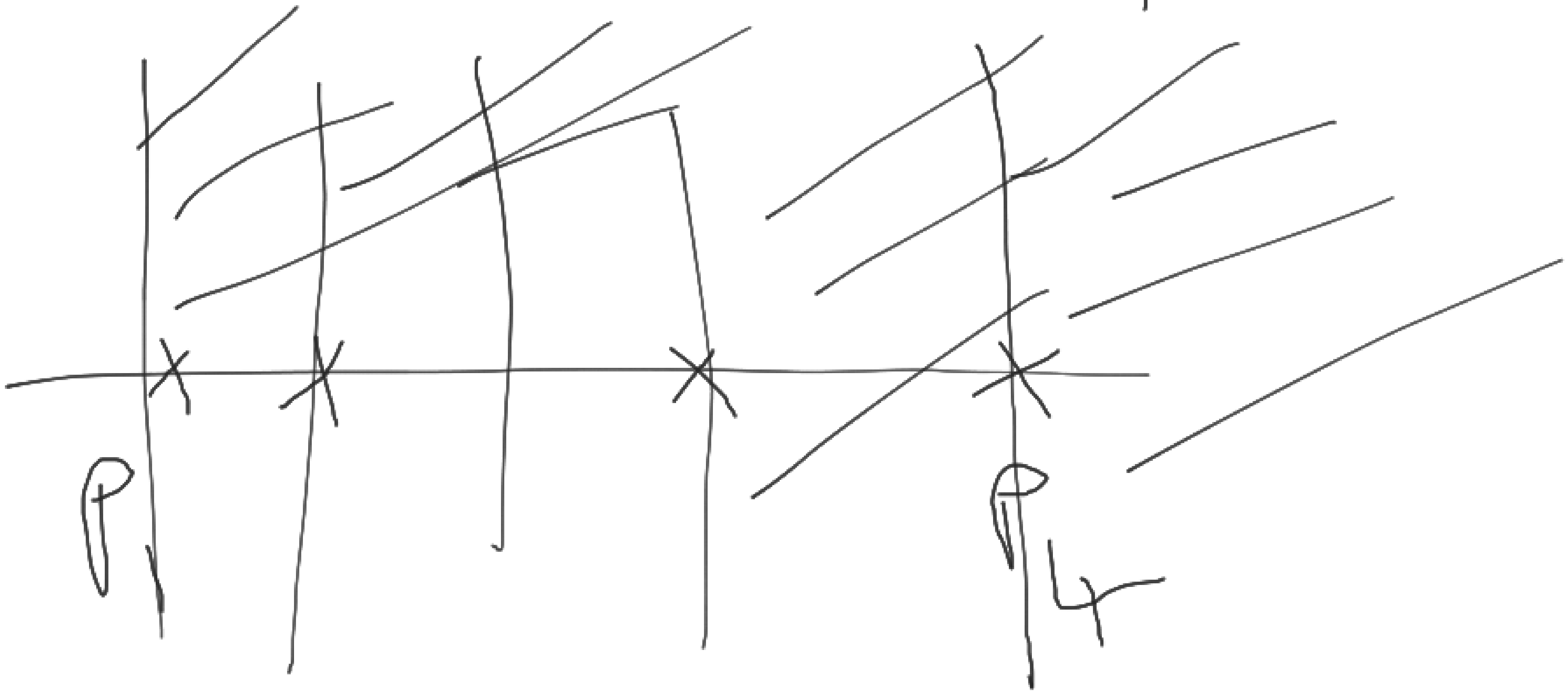


e^{-at}

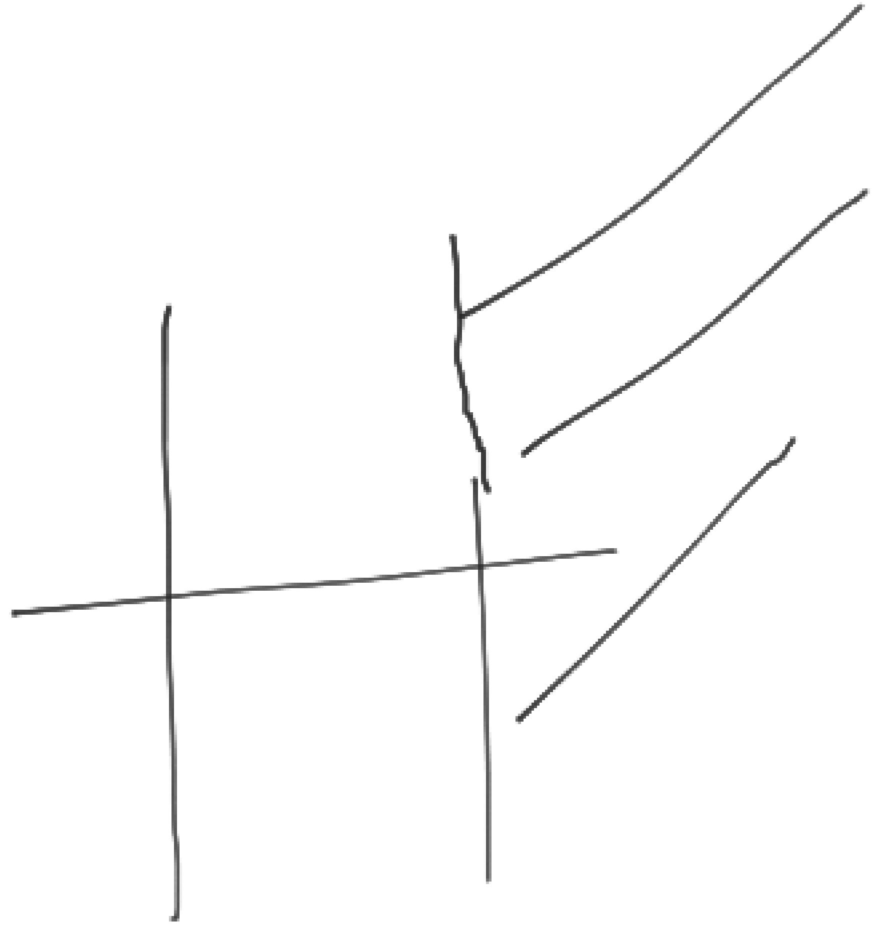
$e^{-a_1 t} u +$

$e^{-a_2 t} u$

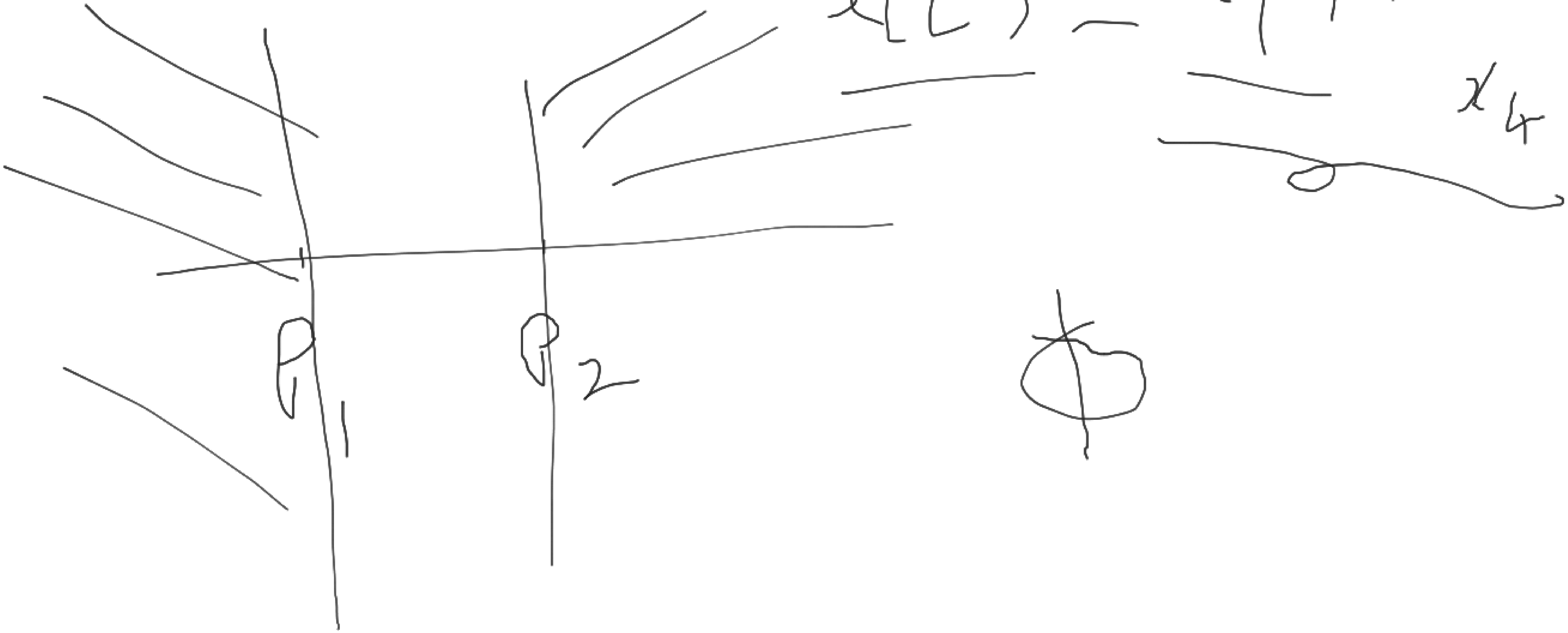
$$H(s) = \frac{\prod_i (s+z_i)}{\prod_i (s+p_i)}$$

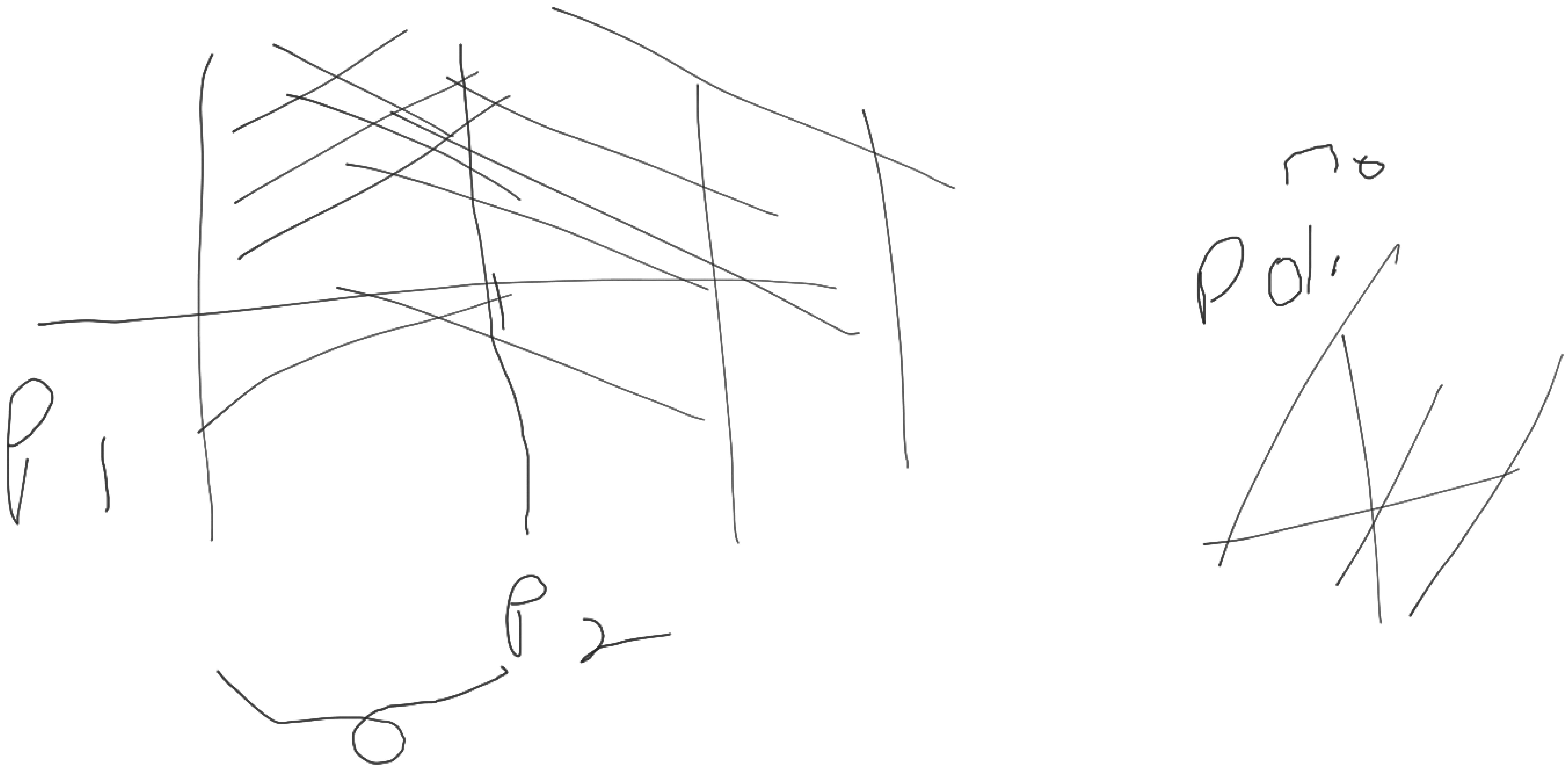


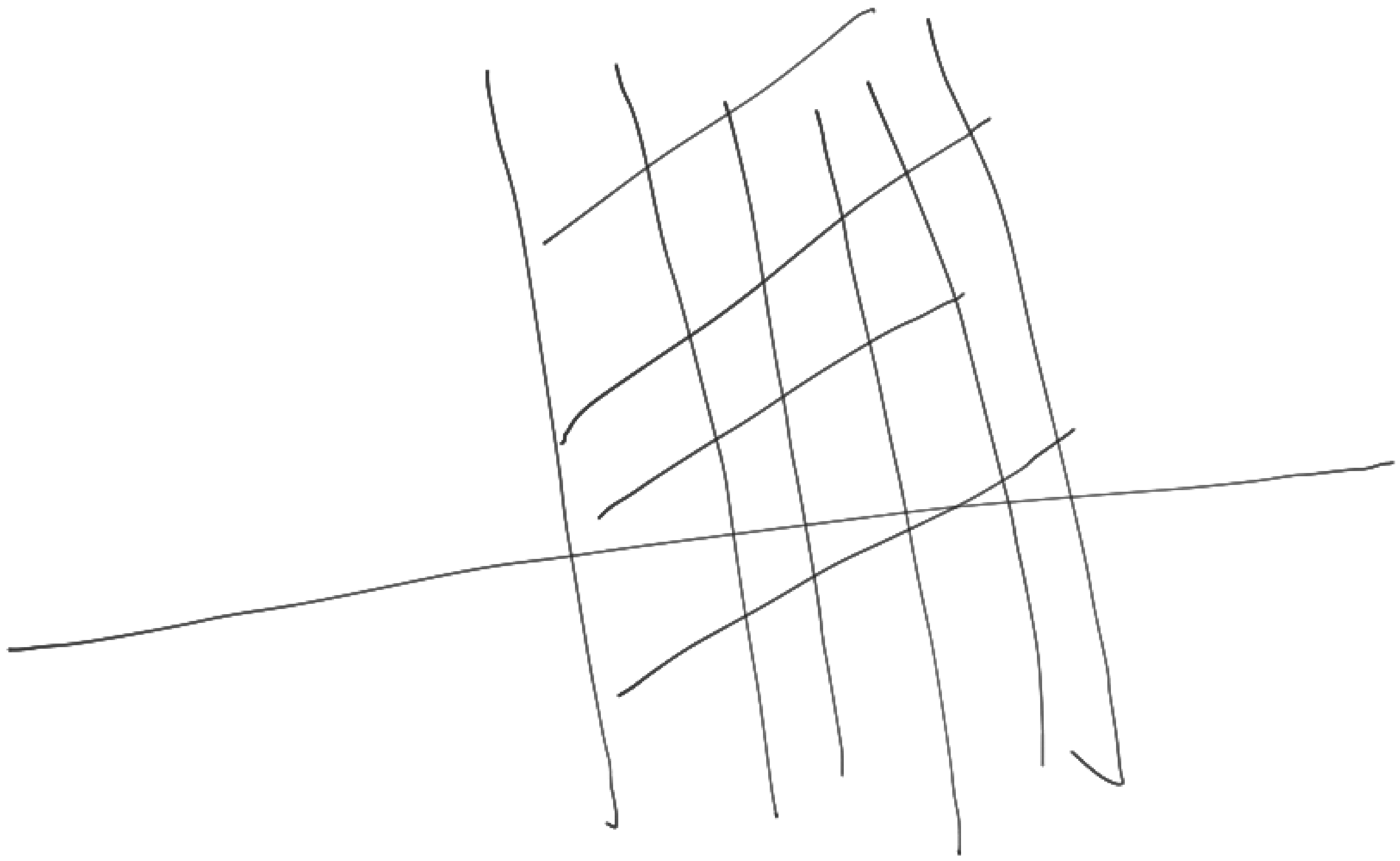
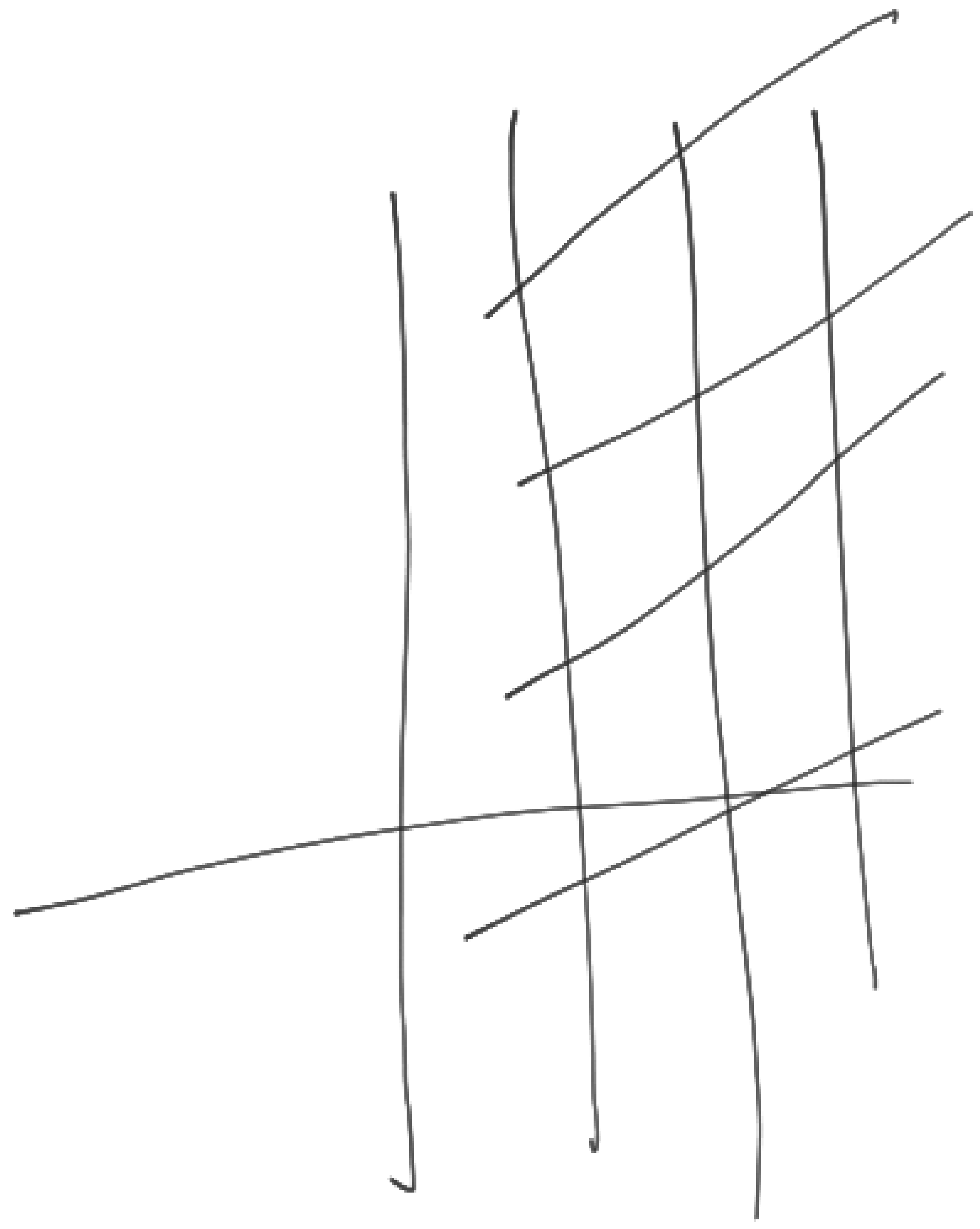
$x(t)$

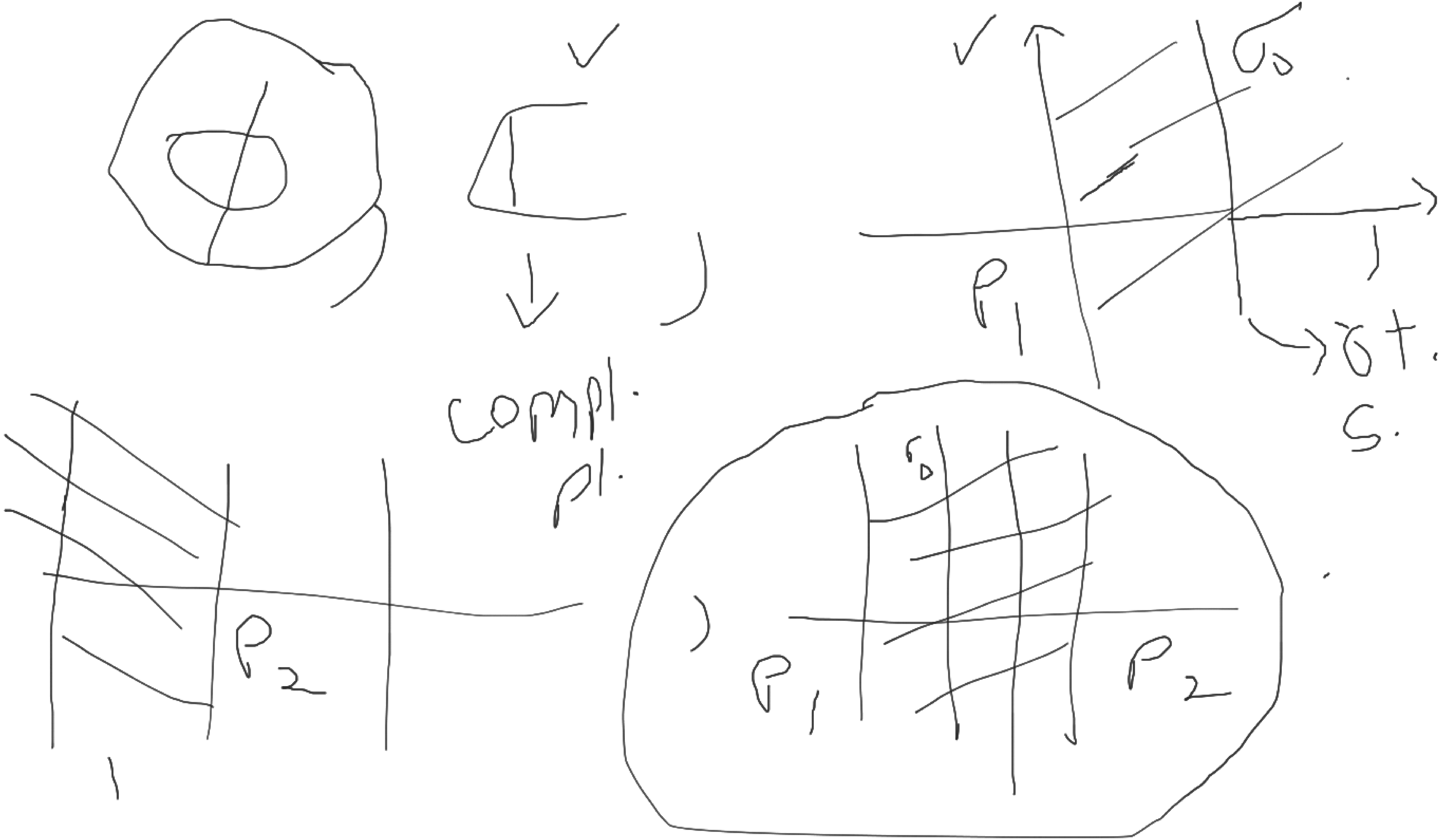


$x(t) = x_1 + \dots + x_4$



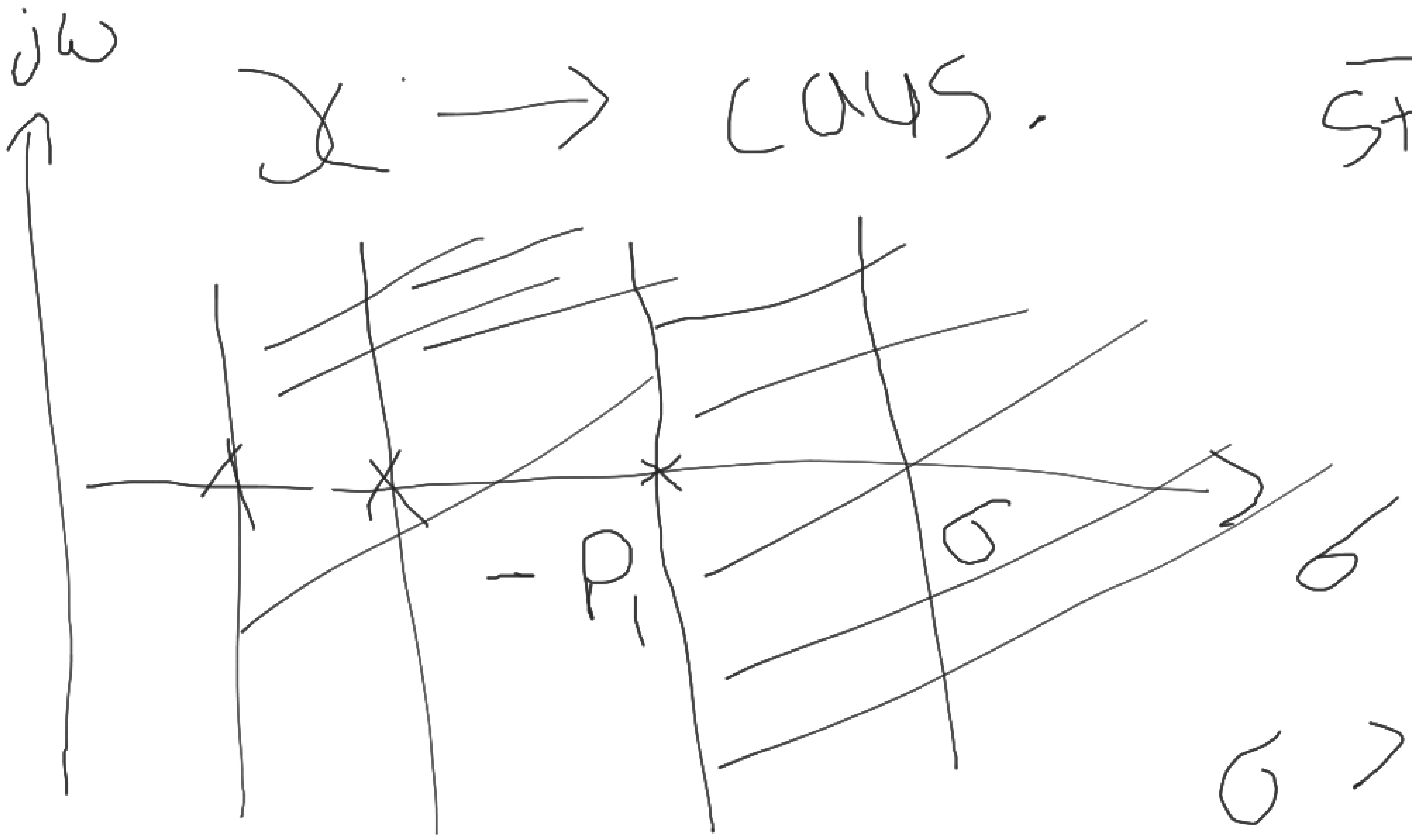

P1
P2
Pol


compl.
pl.
σ_0
ρ_1
st.
s.
ρ_2
σ_0
ρ_1
ρ_2

$x \rightarrow$ caus.

$$\frac{1}{s+p_1}$$

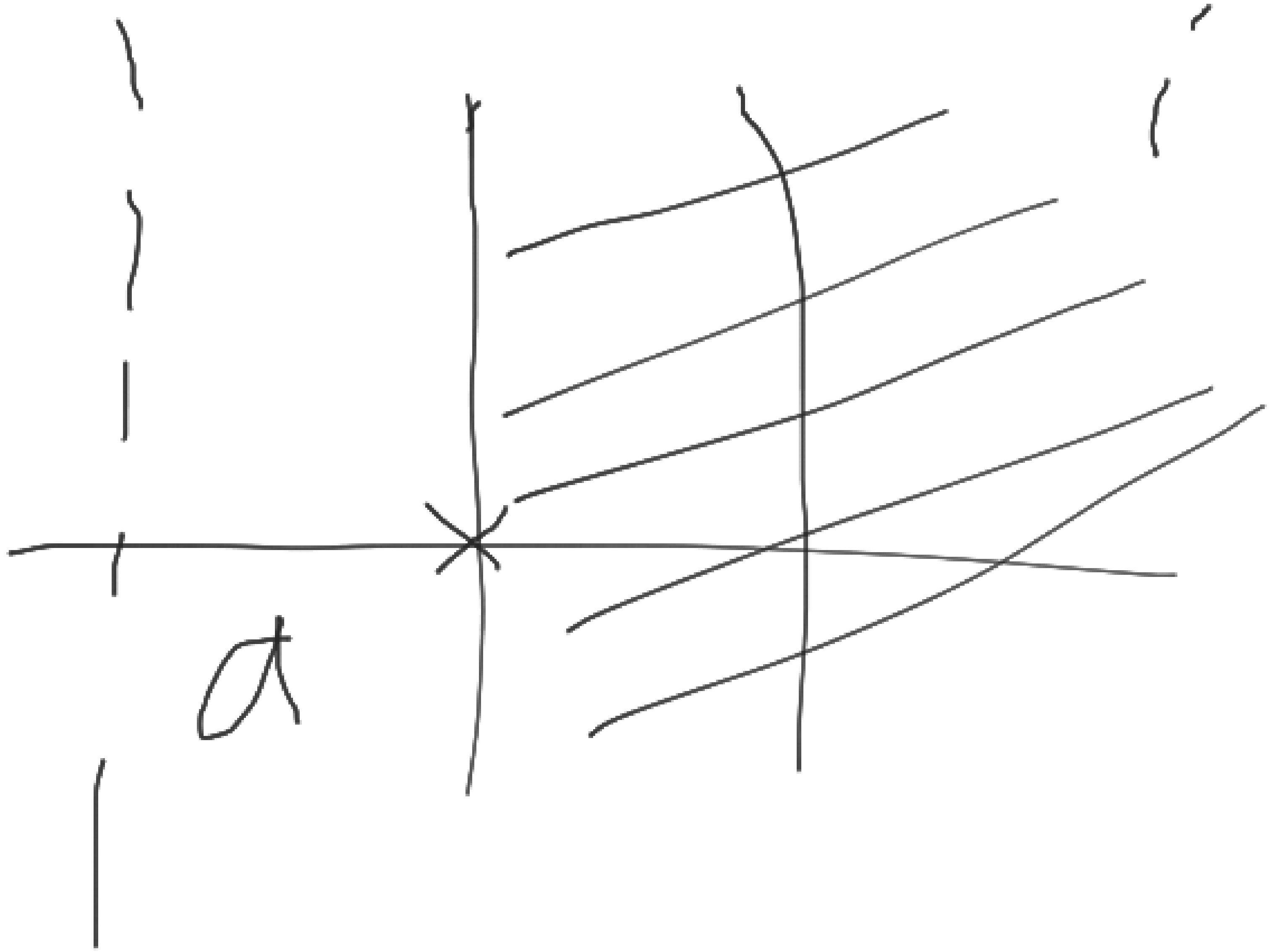


$\mathrm{Re}(s) > -p_1$

$\sigma > -p_1$

s/

$$x(t) = e^{at} u(t)$$

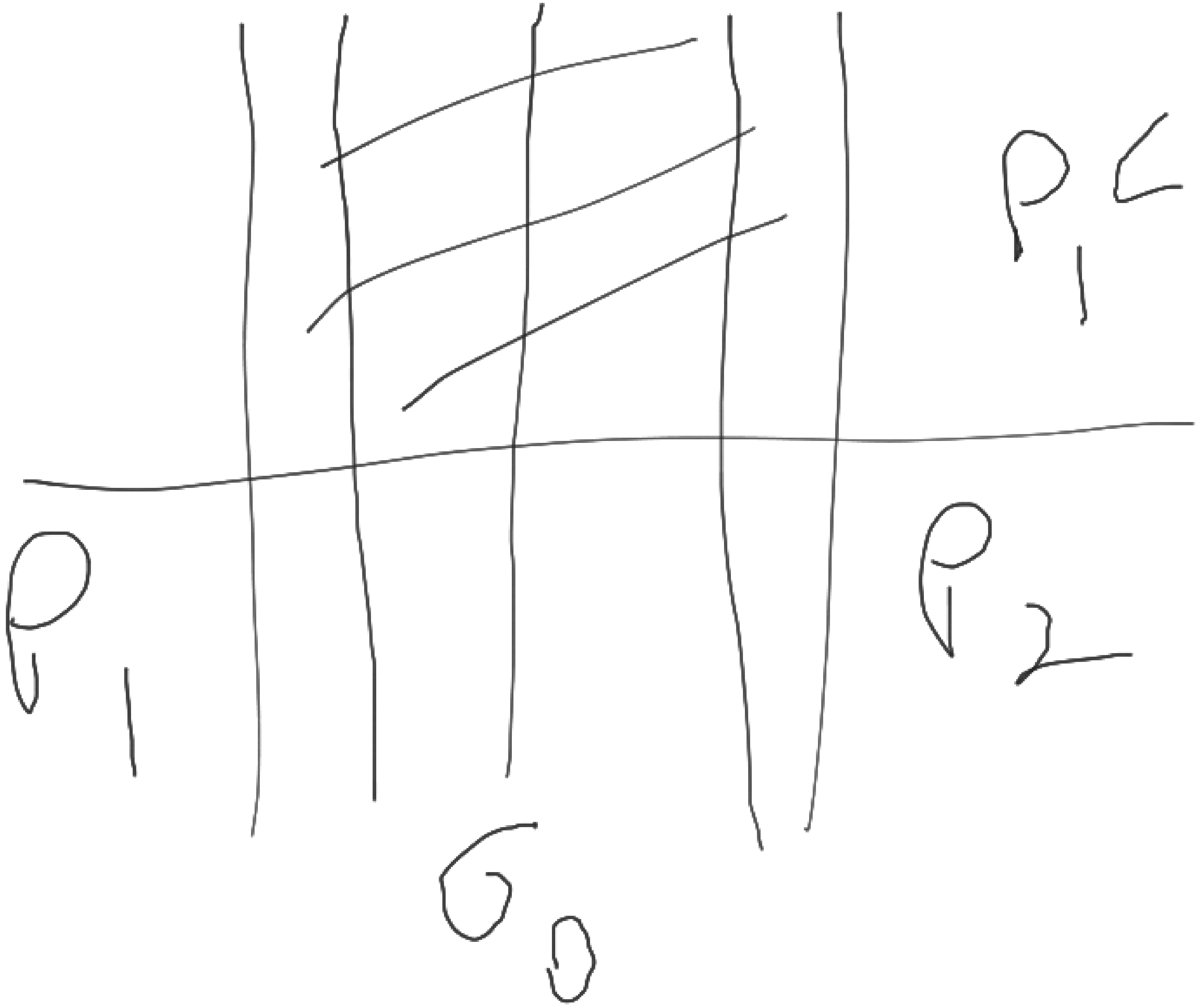


$$\int_0^\infty e^{-(s-a)t}\,dt$$

$$\mathrm{Re}(s-a) > 0$$

$$\mathrm{Re}(s) > +a$$

$\rho_1 < \mathrm{Re}(s) < \rho_2$



$$x_1 - x_1 = x \qquad \mathbb{C}$$

$$R_1 = R1$$