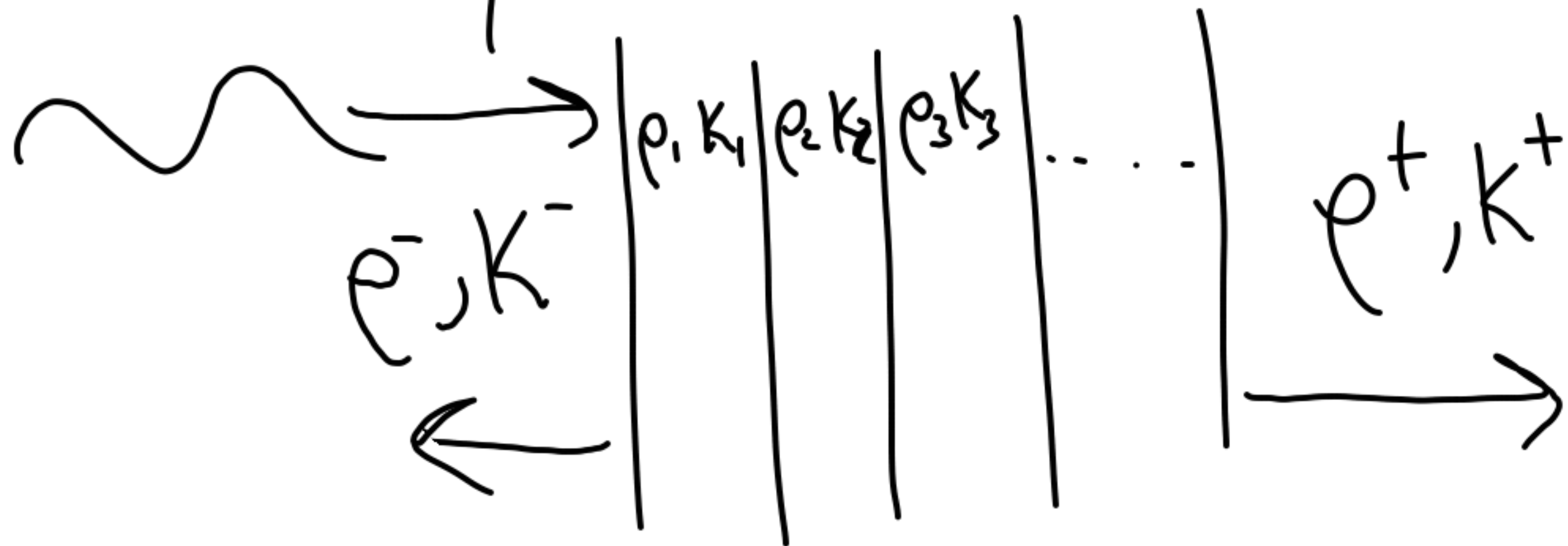


Acoustic scattering

$$p_t + K(x)u_x = 0$$

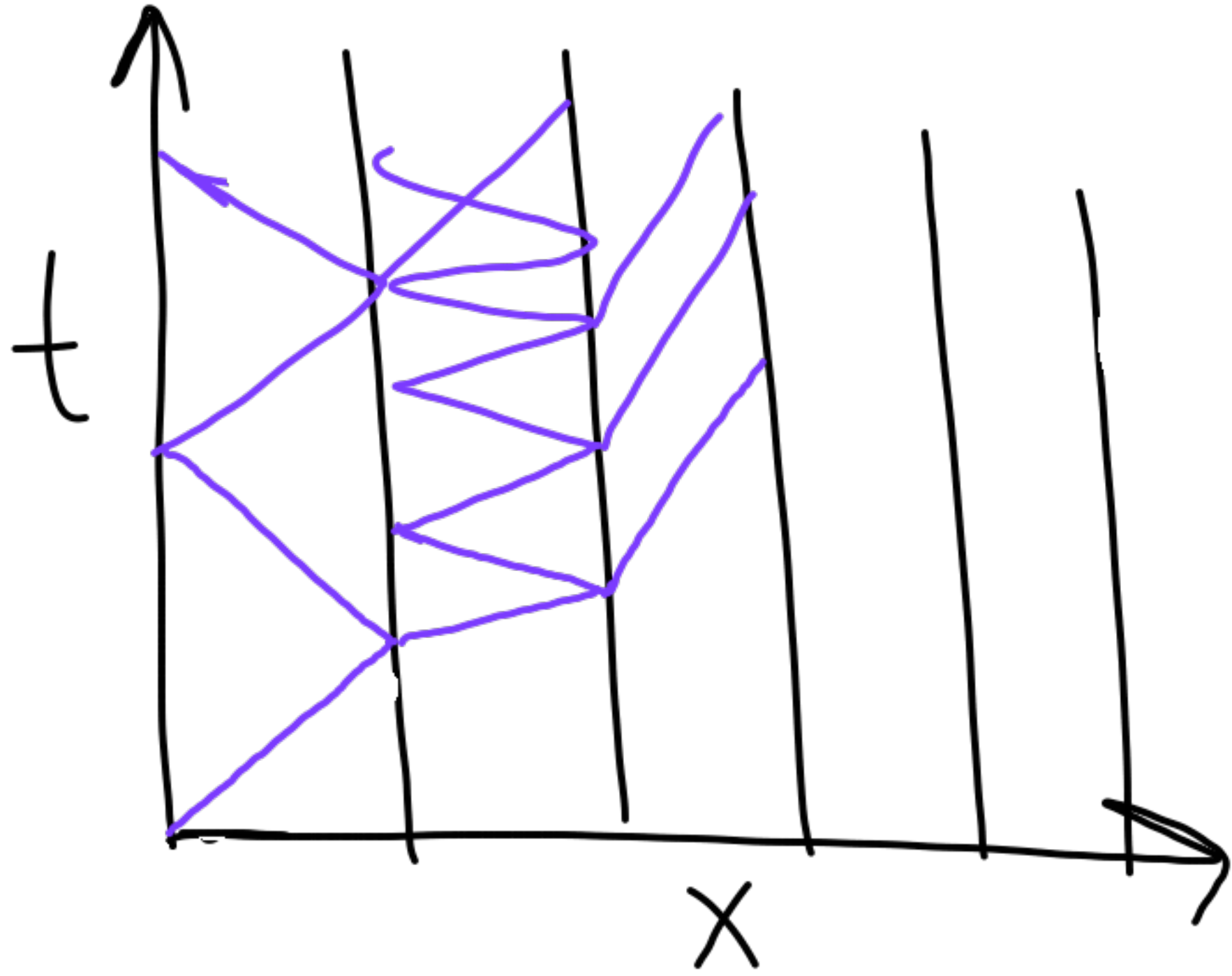
$$\rho(x)u_t + p_x = 0$$

Scattering from a
layered medium:



Scattering of a
 δ -function \rightarrow Green's
function

C_T C_R
Transmission/Reflection



To solve: Consider all paths and add up the contributions.

1	2	3	
2	1	3	✓
1	3	2	
2	3	1	
3	1	2	✓
3	2	1	

$$r(x) = \frac{z'(x)}{2z(x)}$$

$$z = e^{2x} \quad (x \in [x_0, x_+])$$

$$r(x) = 1$$