

also
$$\lambda = \overline{\lambda}(a) = -c(e_a) \times \frac{2}{7-1}$$

$$V_{+} = (1+8) x^{+} + (3-8) x^{-}) \times \frac{1}{4} = x \times \begin{bmatrix} 48 & \frac{2(3-8)}{8-1} & c_{0} \end{bmatrix}$$

And we can find the points where it is constant by solving e = 0 (2:(+)) and $e = e_0$ (2:(+)):

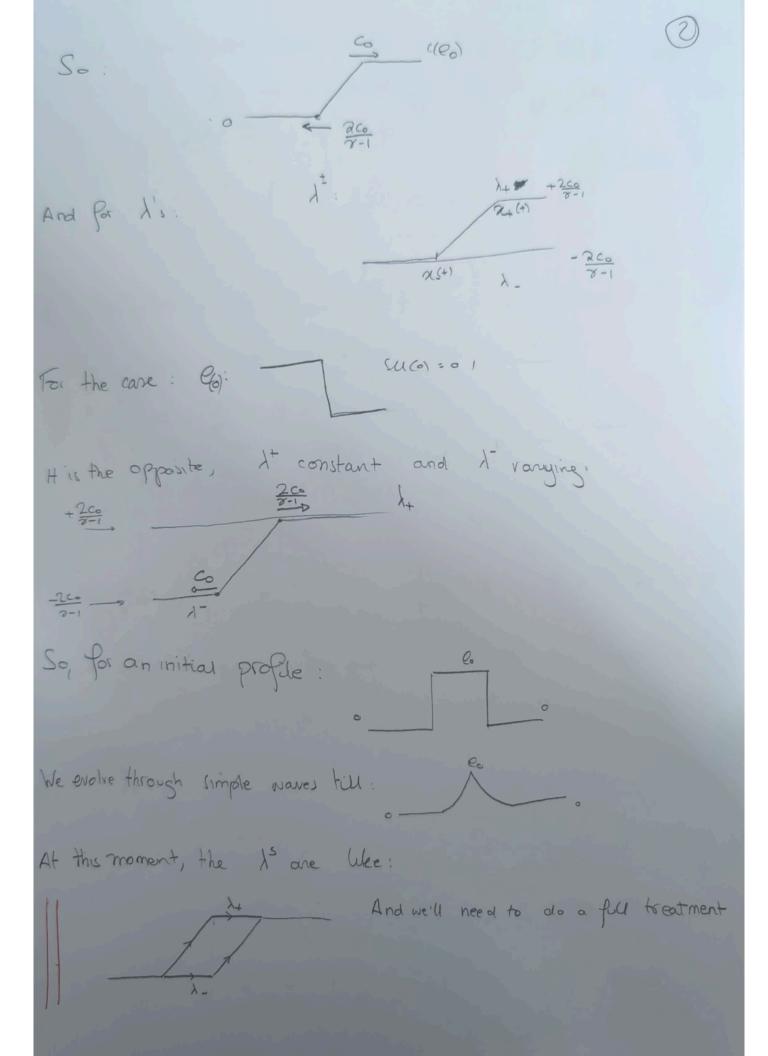
$$|e=0| = 1$$

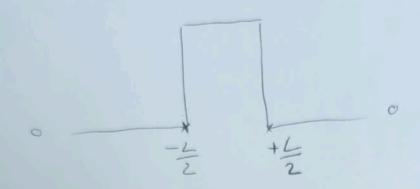
$$|e=0$$

$$\left\| \frac{\chi_{+}(t)}{t} \right\| = \lambda \left[\frac{1}{2} + \sqrt{3} - \sqrt{3} \right] \times \frac{1}{4} = \lambda^{-1} = \frac{-2}{\sqrt{3} - 1} c_{o} t$$

$$||e=e_0 = \lambda^{+} = \frac{2}{3-1}c_0 = -\lambda^{-}$$

$$||thus = \chi_{-}(t) = \lambda^{-} \left[3-8-1-8\right] \times \frac{1}{4} = \frac{-2}{8-1}c_0 \times \frac{1}{4} \times 2 \times \left[1-8\right] = c_0$$





So the time to where simple wave treatment stops working is when $C_0 \times t_0 = \frac{L}{2}$, $t_0 = \frac{L}{2C_0}$

At this moment, we have a distributed like:

and
$$\frac{1}{2} + \frac{2}{3-1} c_0 t_0 = \frac{1}{2} \left[\frac{3}{3-1} c_0 t_0 \right]$$
And λ_1, λ_2 :
$$\lambda_1 + \frac{2}{3-1} c_0$$

So we can determine λ_{+} , λ_{2} as a fraction of λ_{-} in this initial condition: Calling $L_{0} = \frac{L}{2} \begin{pmatrix} 2+1 \\ 2-1 \end{pmatrix}$ For $-L_{0} < \chi < 0$: $\left\{ \lambda_{-} = -\frac{2C_{0}}{\gamma_{-}} \right\}$ $\left\{ \lambda_{+} = \frac{8C_{0}}{2} \chi + \frac{2C_{0}}{\gamma_{-}} \right\}$

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$$\int_{0}^{1} 0 < x < \frac{L_{0}}{2} \begin{cases} \lambda = \frac{1}{2} + \frac{8c_{0}}{2} x - \frac{3c_{0}}{2} \\ \lambda = \frac{3c_{0}}{2} \end{cases}$$

In It space these are initial conditions:

$$\chi = \frac{L_0}{2}$$