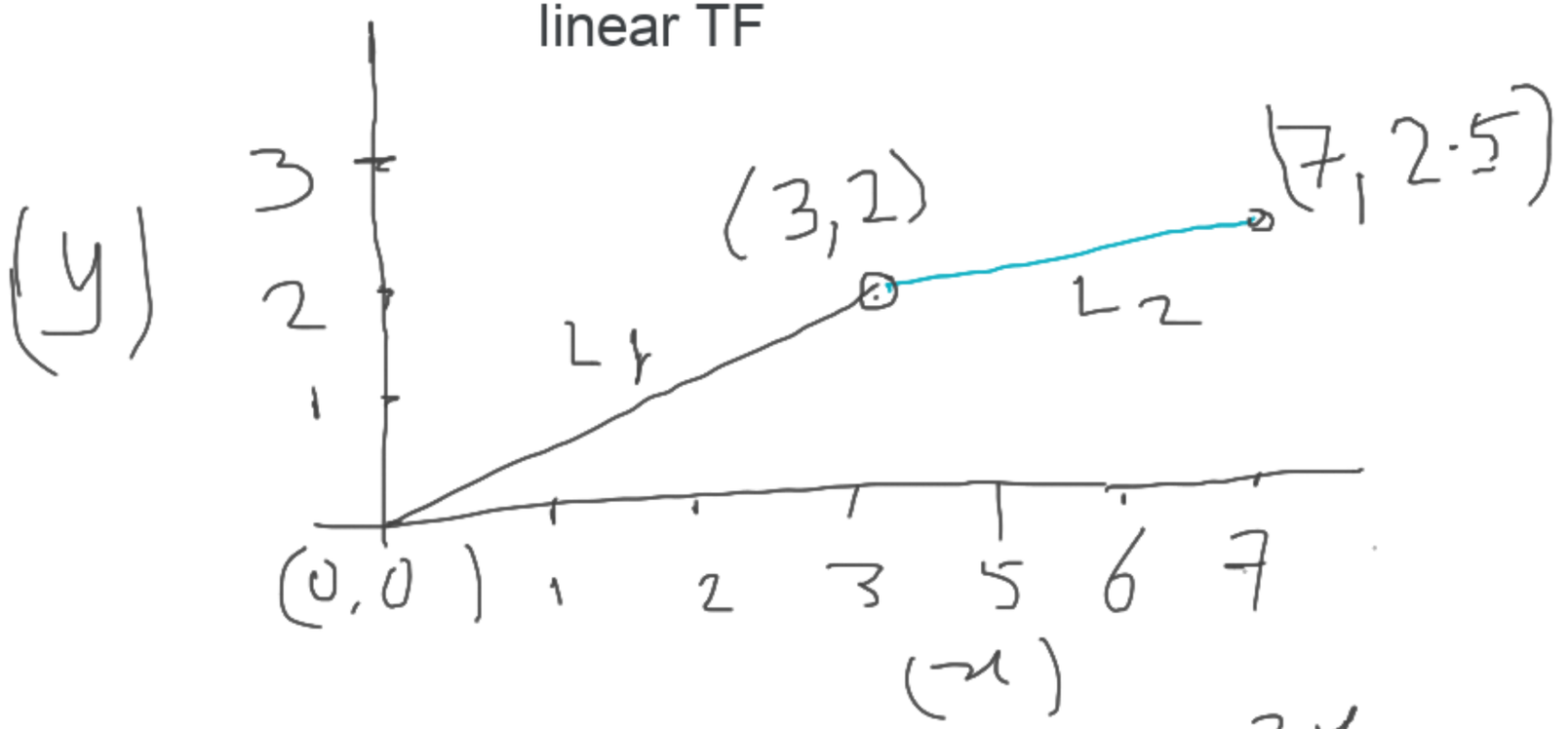
Piecewise linear TF

Transfer fun:



$$y = \begin{cases} \frac{2x}{3}, & 0 \le x \le 3 \\ 2 + \frac{x-3}{8}, & \end{cases}$$

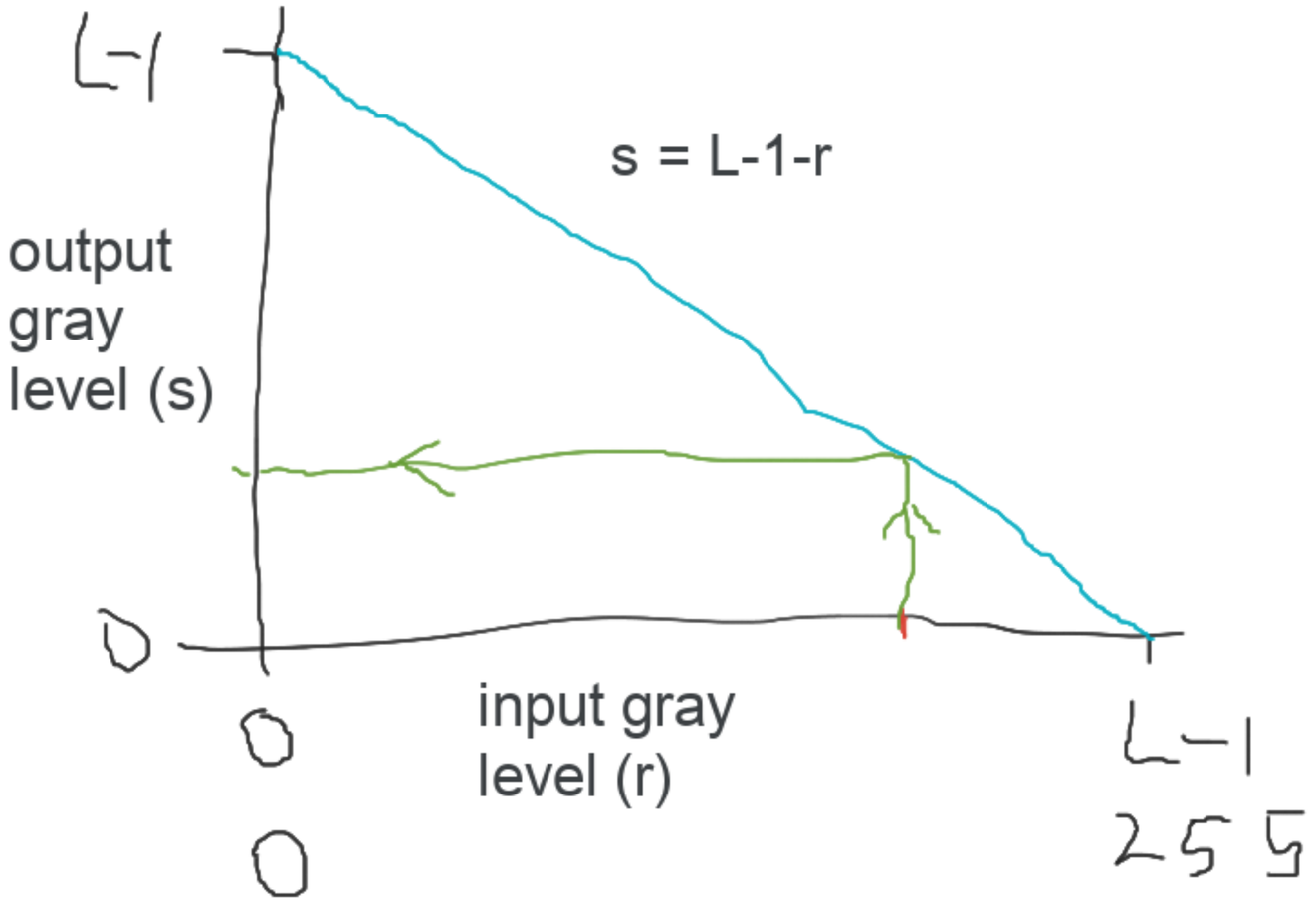
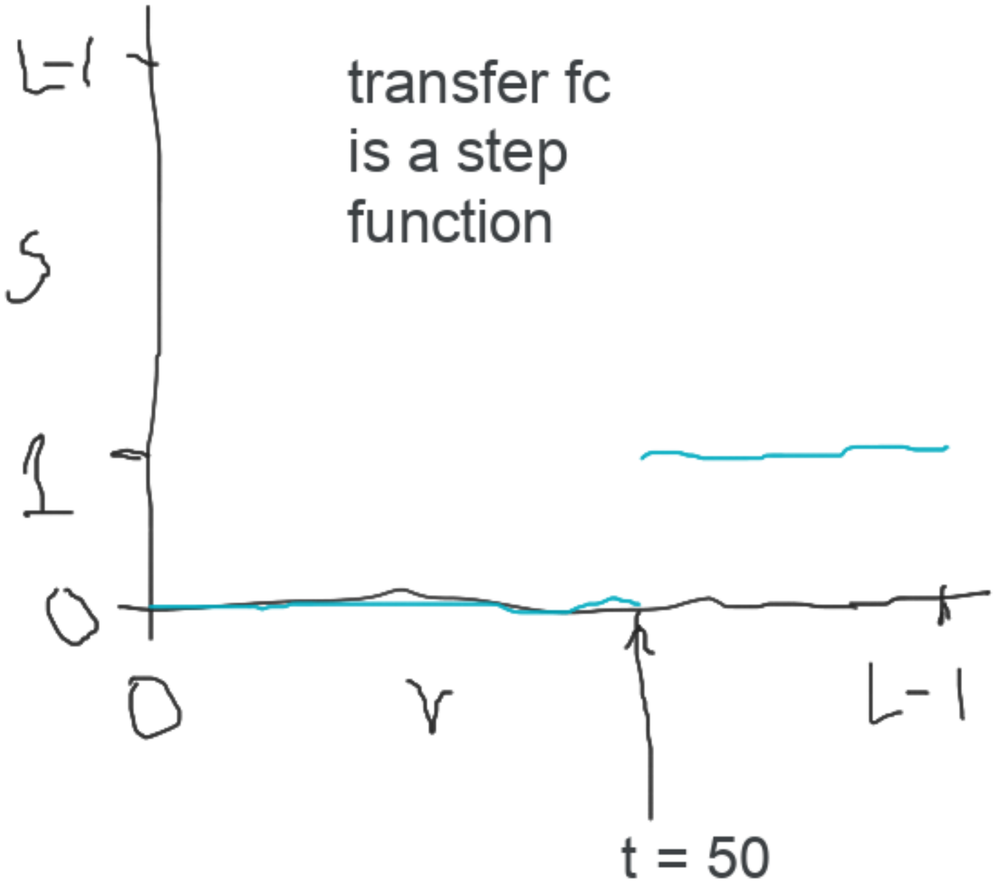
$$3 \le x \le 7$$

x	y
0	0
1	2/3
2	
3	
4	
5	
6	
7	

L_1: $\frac{y-0}{x-0} = \frac{2-0}{3-0} \Rightarrow y = \frac{2x}{3}$

L_2: $\frac{y-2}{x-3} = \frac{2.5-2}{7-3} \Rightarrow y = 2 + \frac{1}{8}(x-3)$

Transfer function for 'negative'



Global threshold