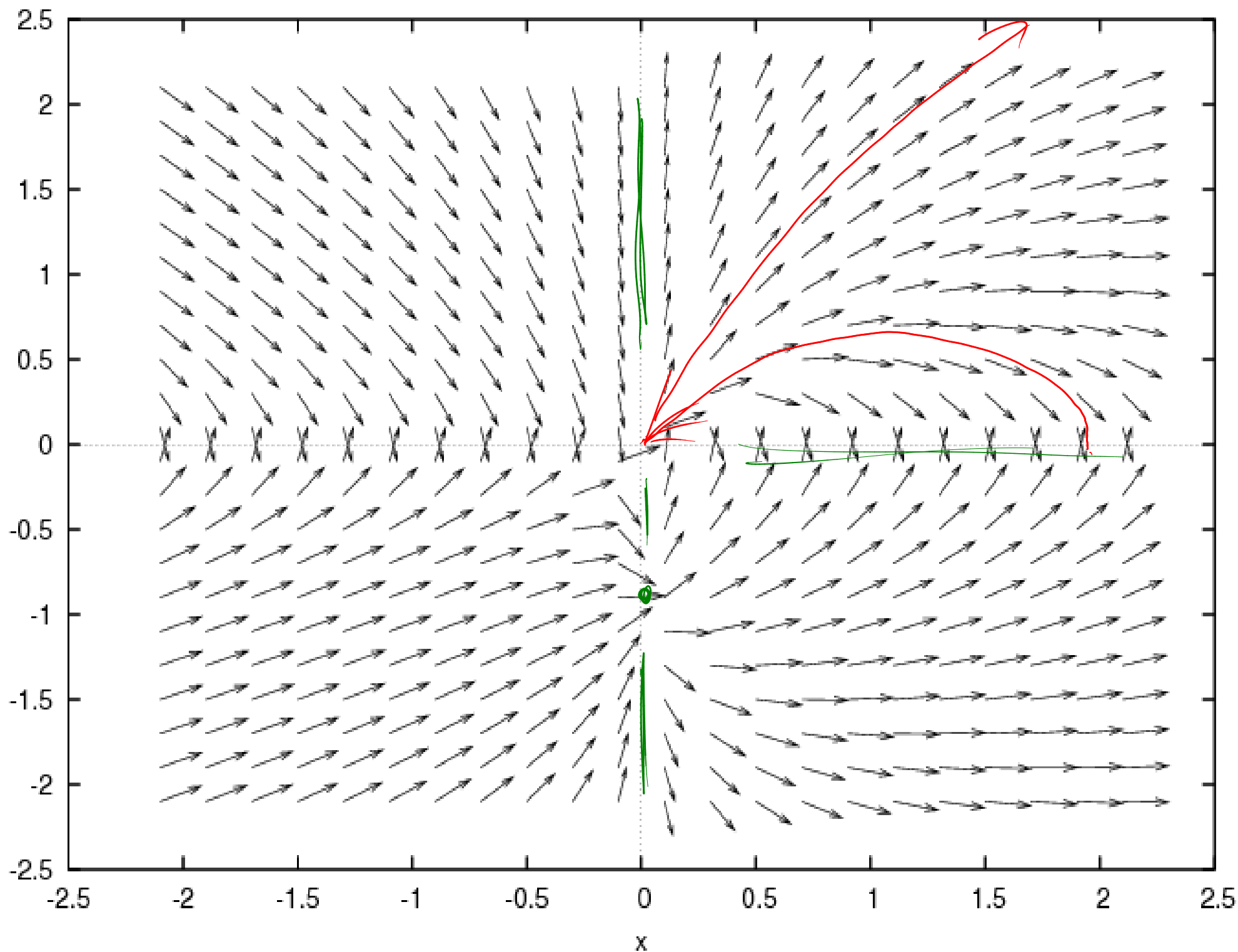


$s = 2$

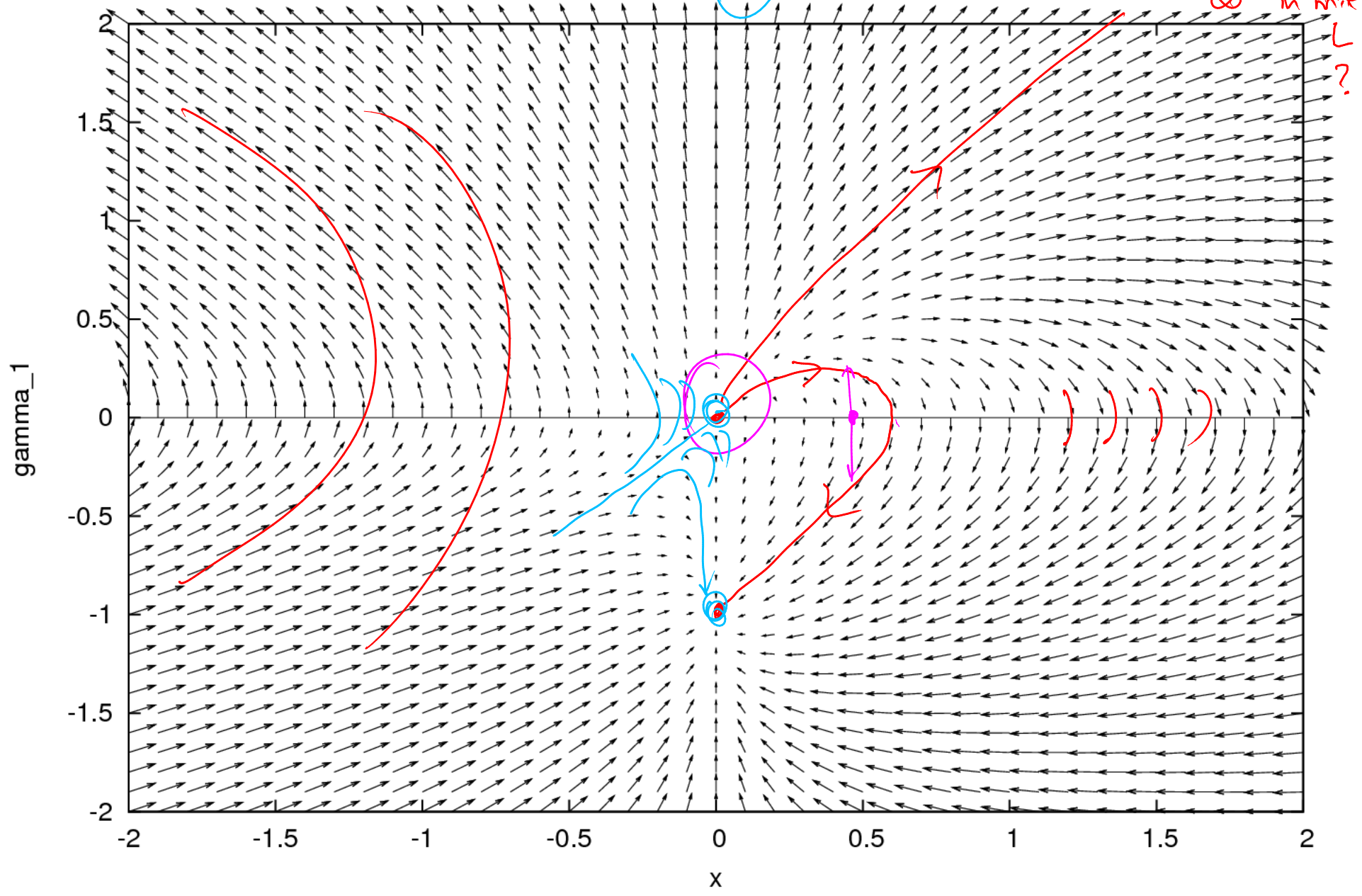
$y = \delta_1$



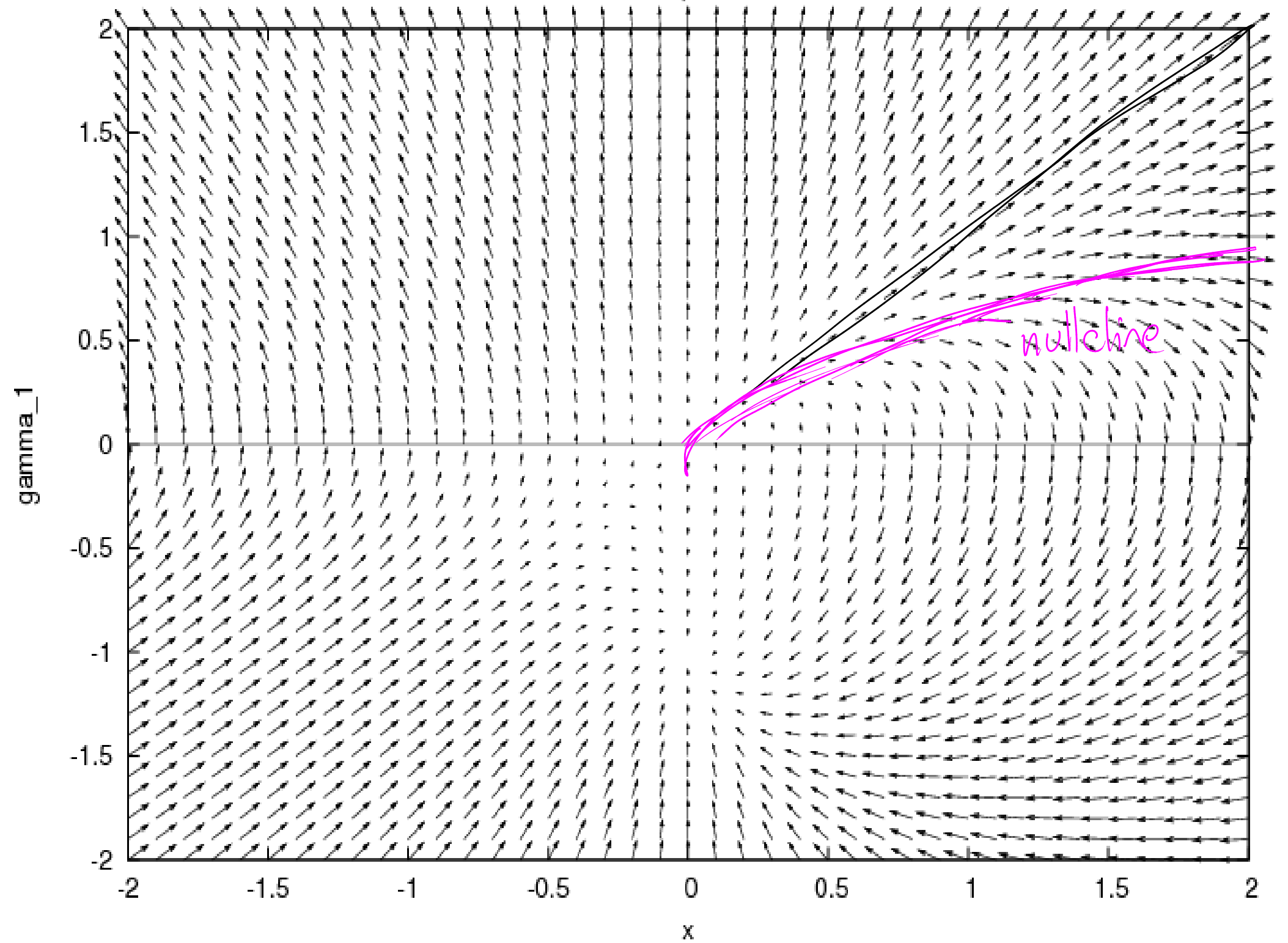
these arrows all point in the  $+L$  direction  
size is speed in  $L$

$s=2, P=x$

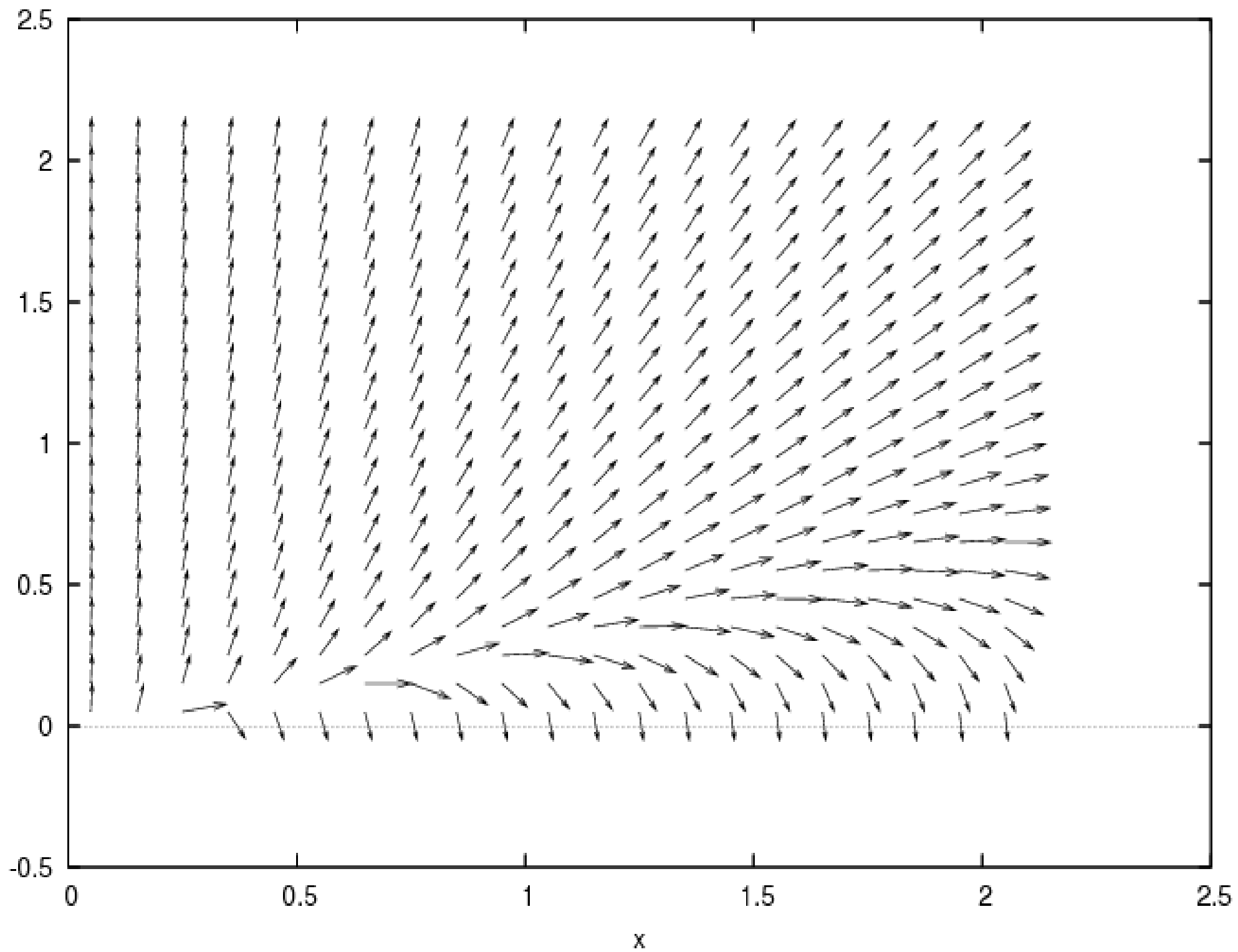
Q? ① do these exist  
② do they go to  $\infty$  in  $L$ ?



$s=1, P=x$



# QED to 2 loops



# QED

