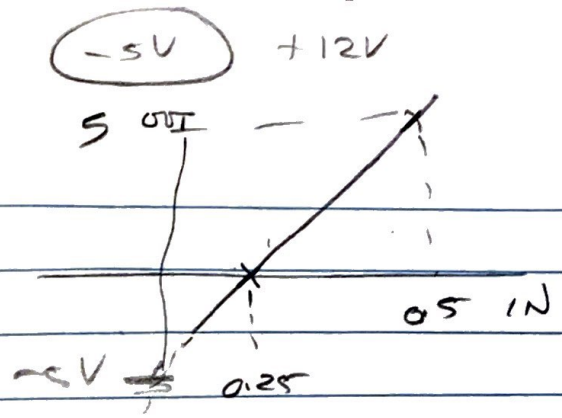


	V	
IN	0.25	0.500
OUT	0.00	5.00

$y = mx + b$

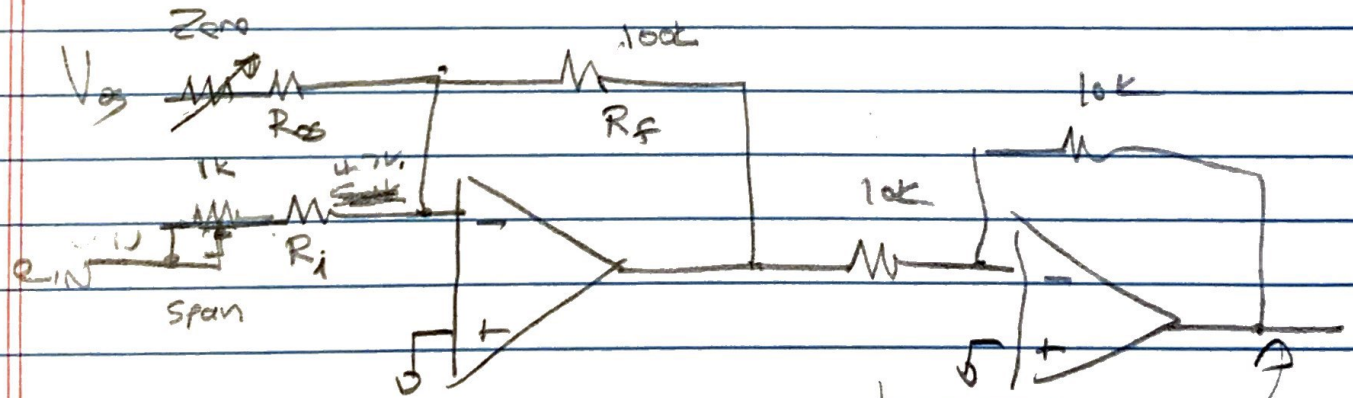
$m = \frac{\Delta V_{OUT}}{\Delta V_{IN}} = G = 20$

$0 = 20 * 0.25 + b$

$b = -5V$

$5.00 = 20 * 0.5 - 5V$

$V_{OUT} = 20\ e_{IN} - 5V$



$V_{OUT} = +\frac{R_f}{R_i} e_{IN} + \frac{R_f}{R_{os}} V_{os}$

$20\ e_{IN} - 5V$

$\frac{R_f}{R_i} = 20$

$\frac{100k}{100k} V_{os} = -5V$