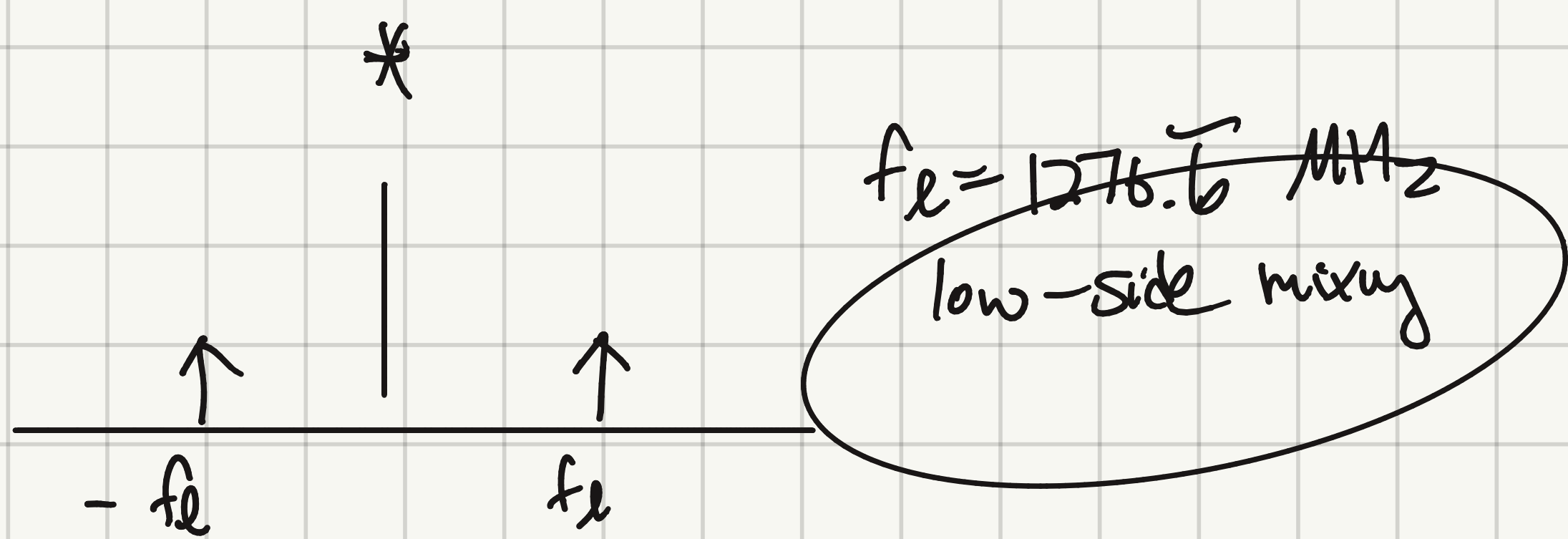
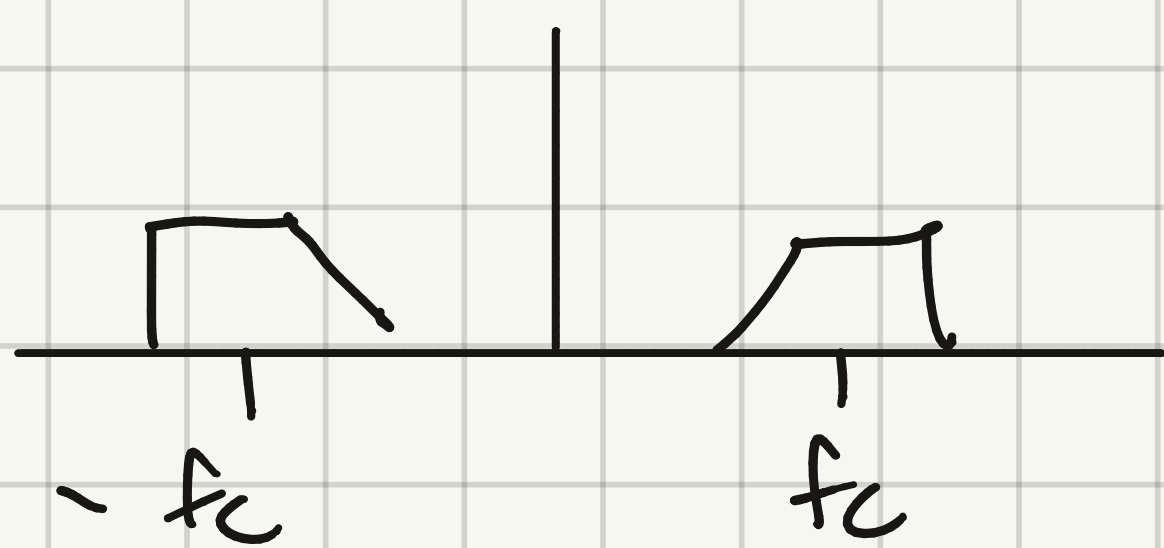
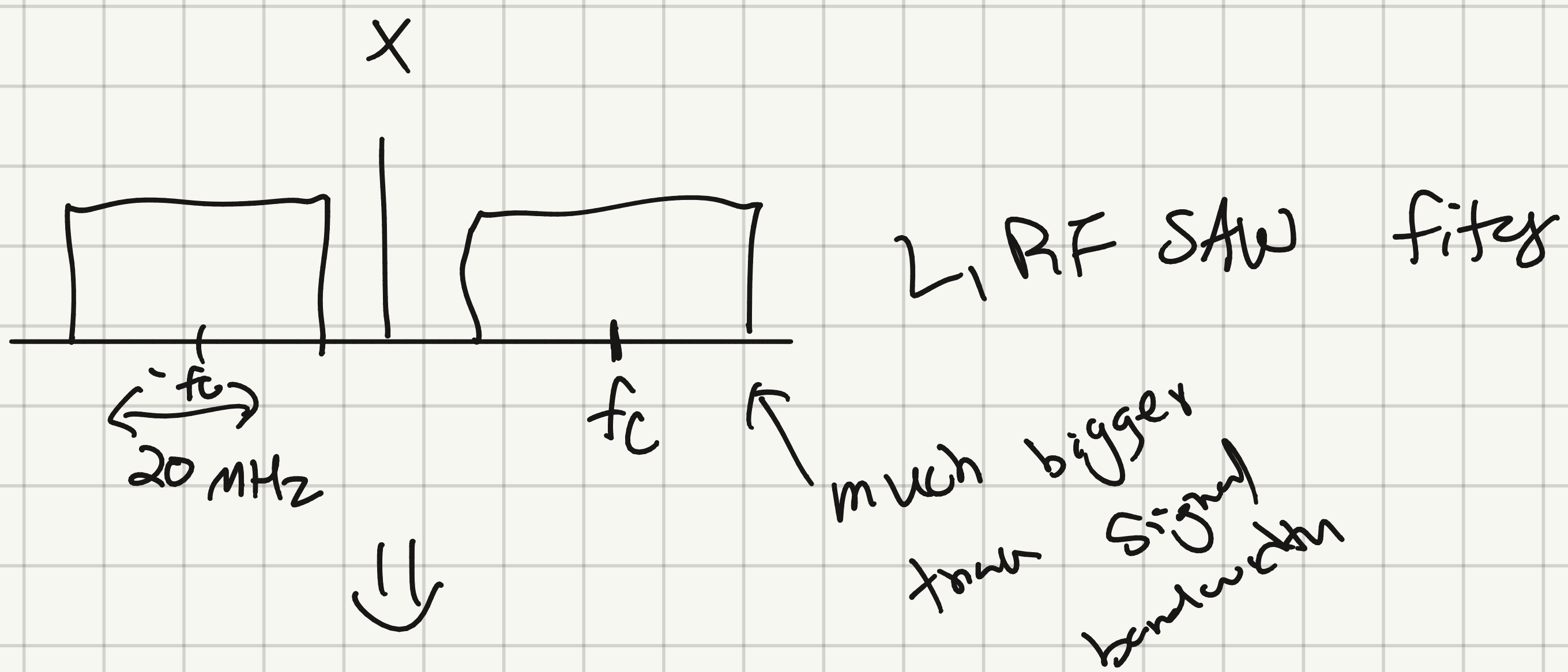
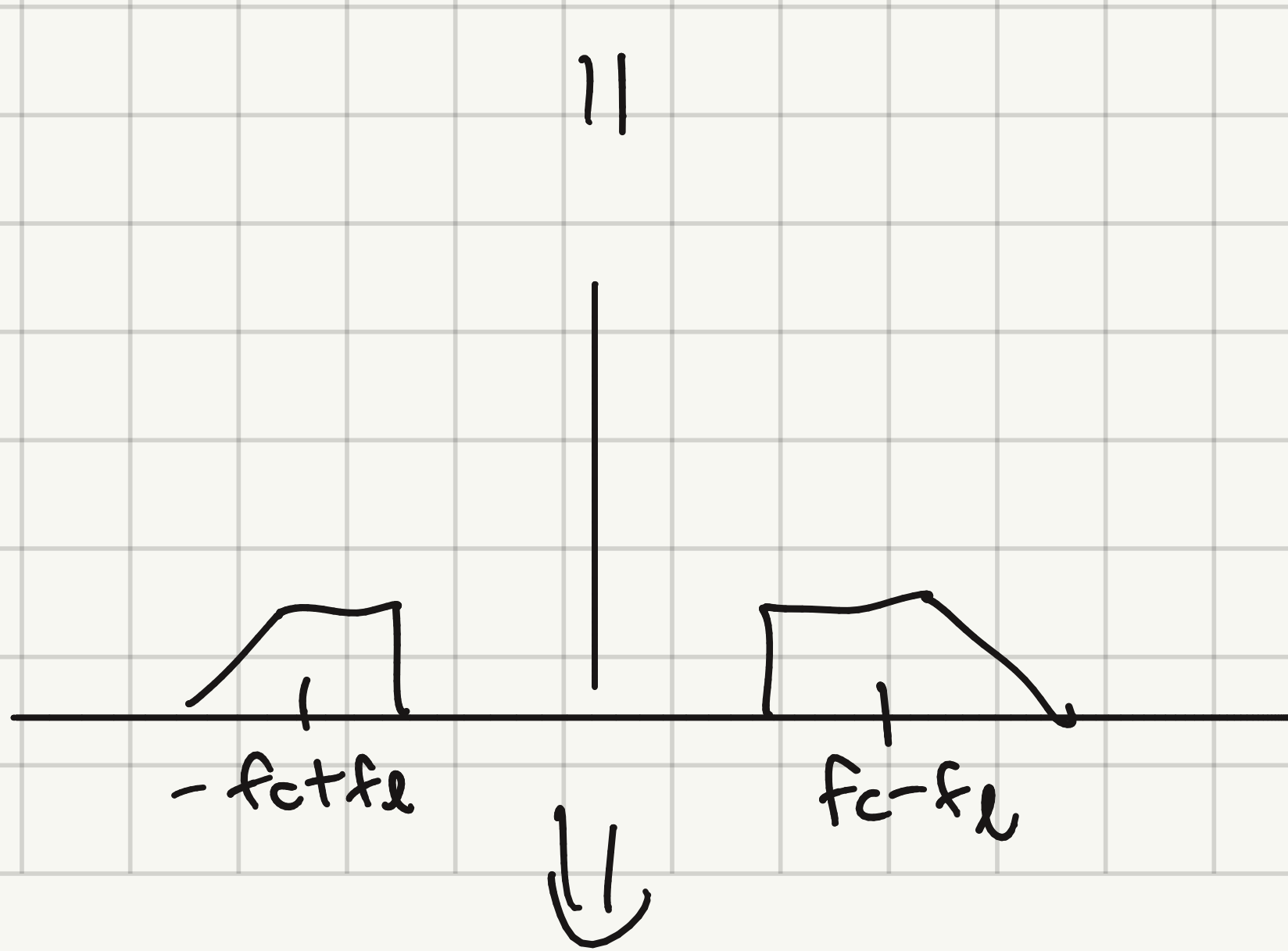
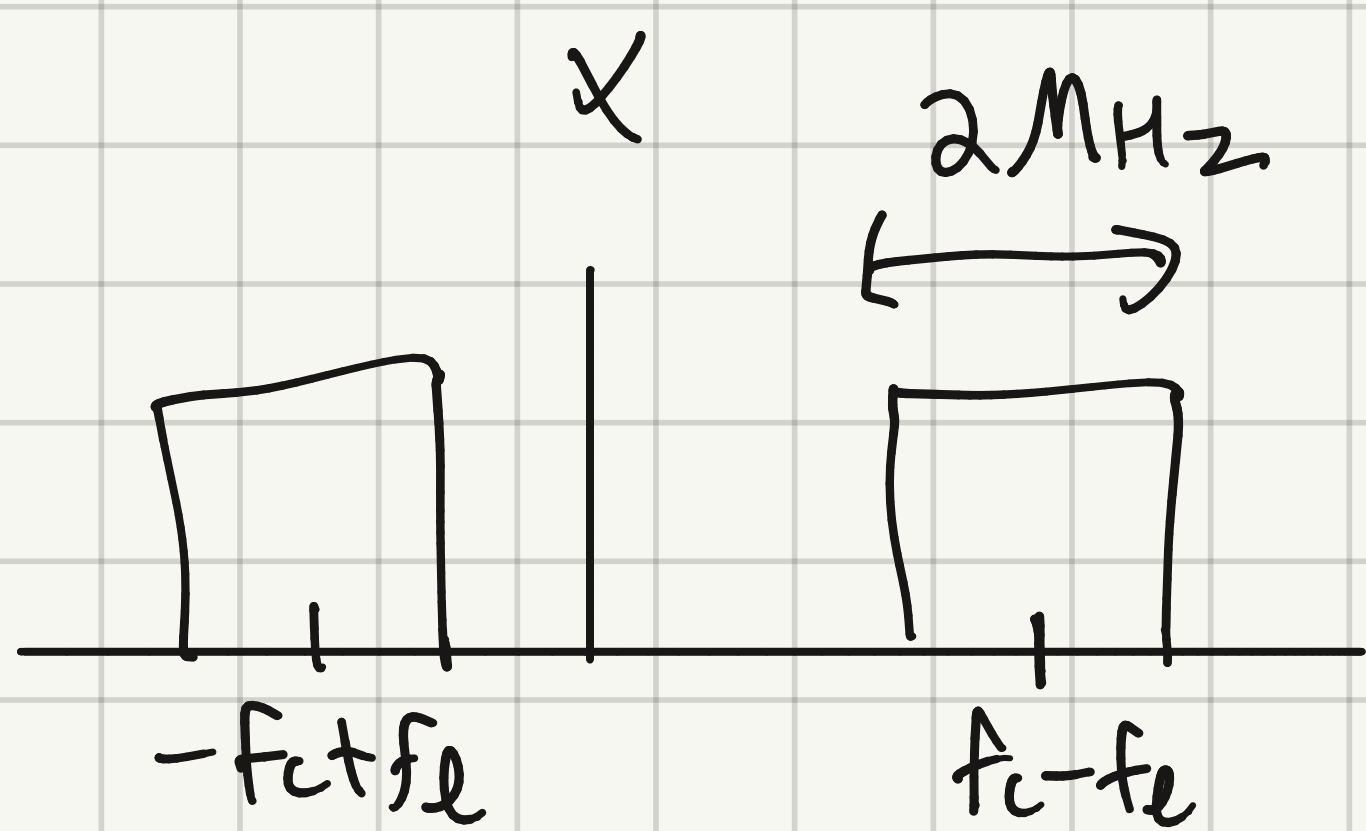
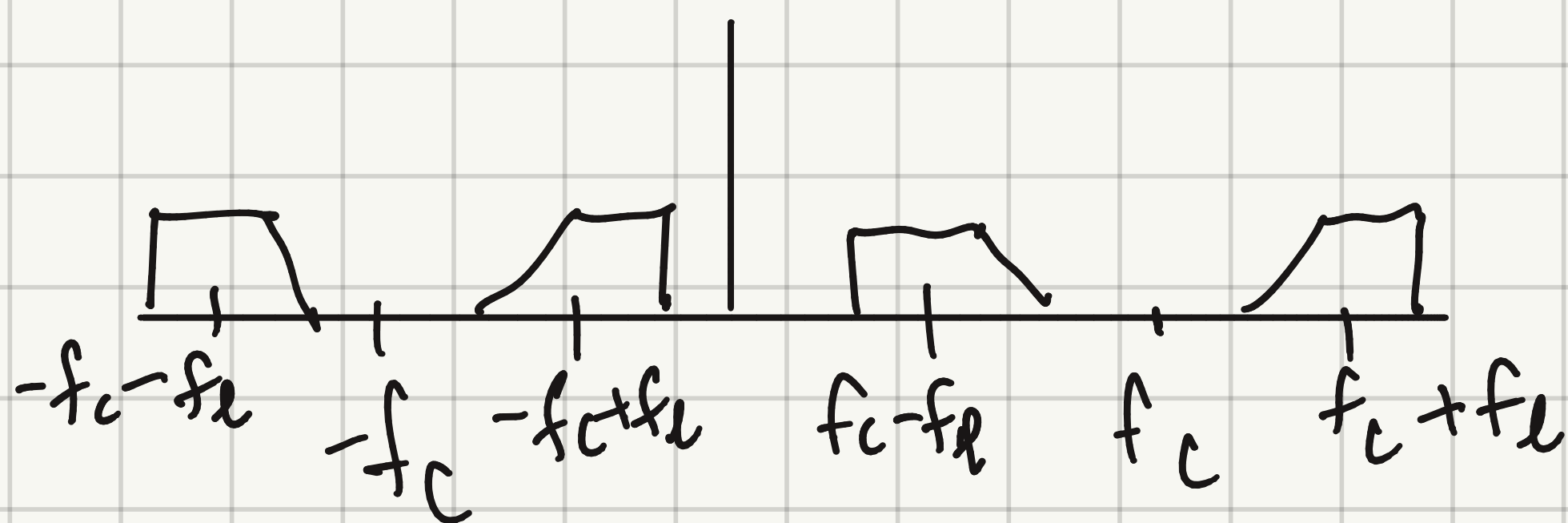


# Exam 2 Problem 2

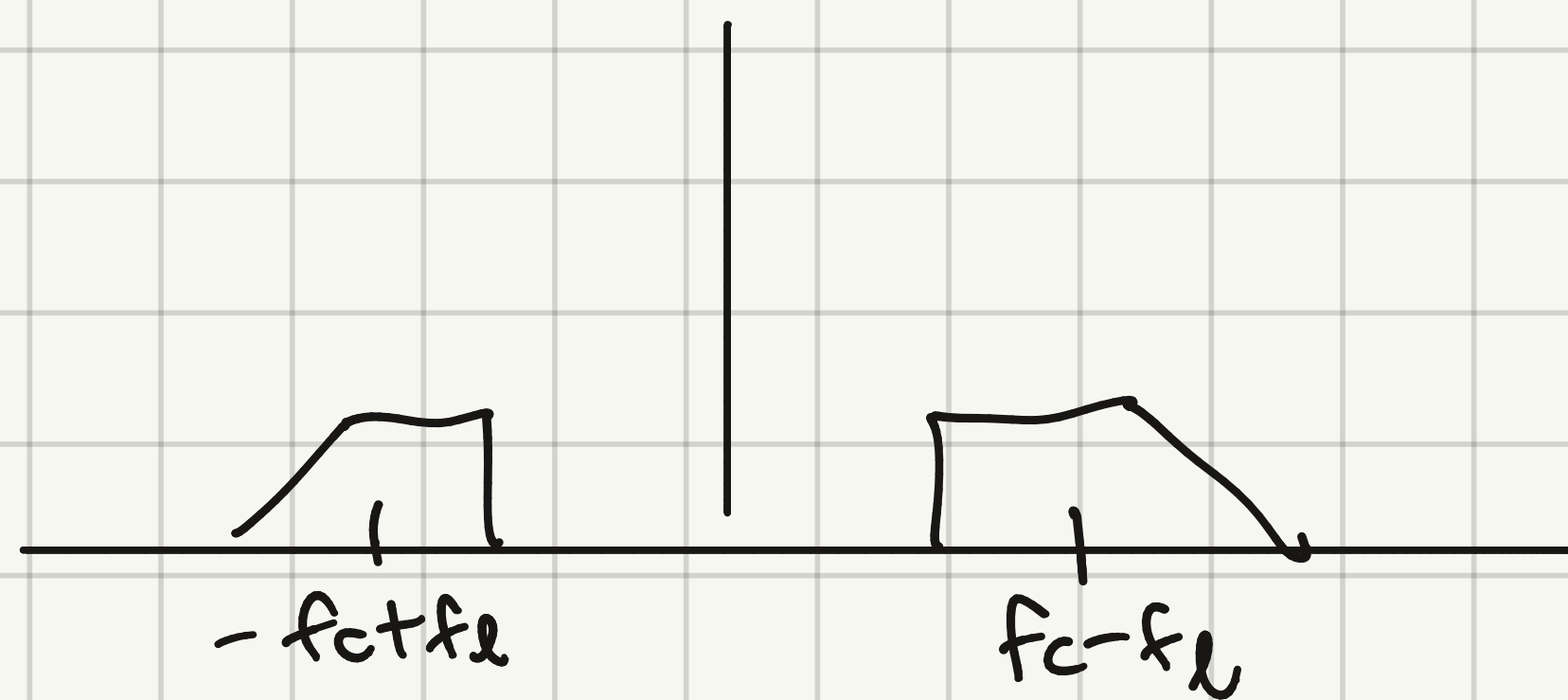
Original signal after  $L_1$  and  $L_2$  divider  $f_c \approx 1575.42 \text{ MHz}$



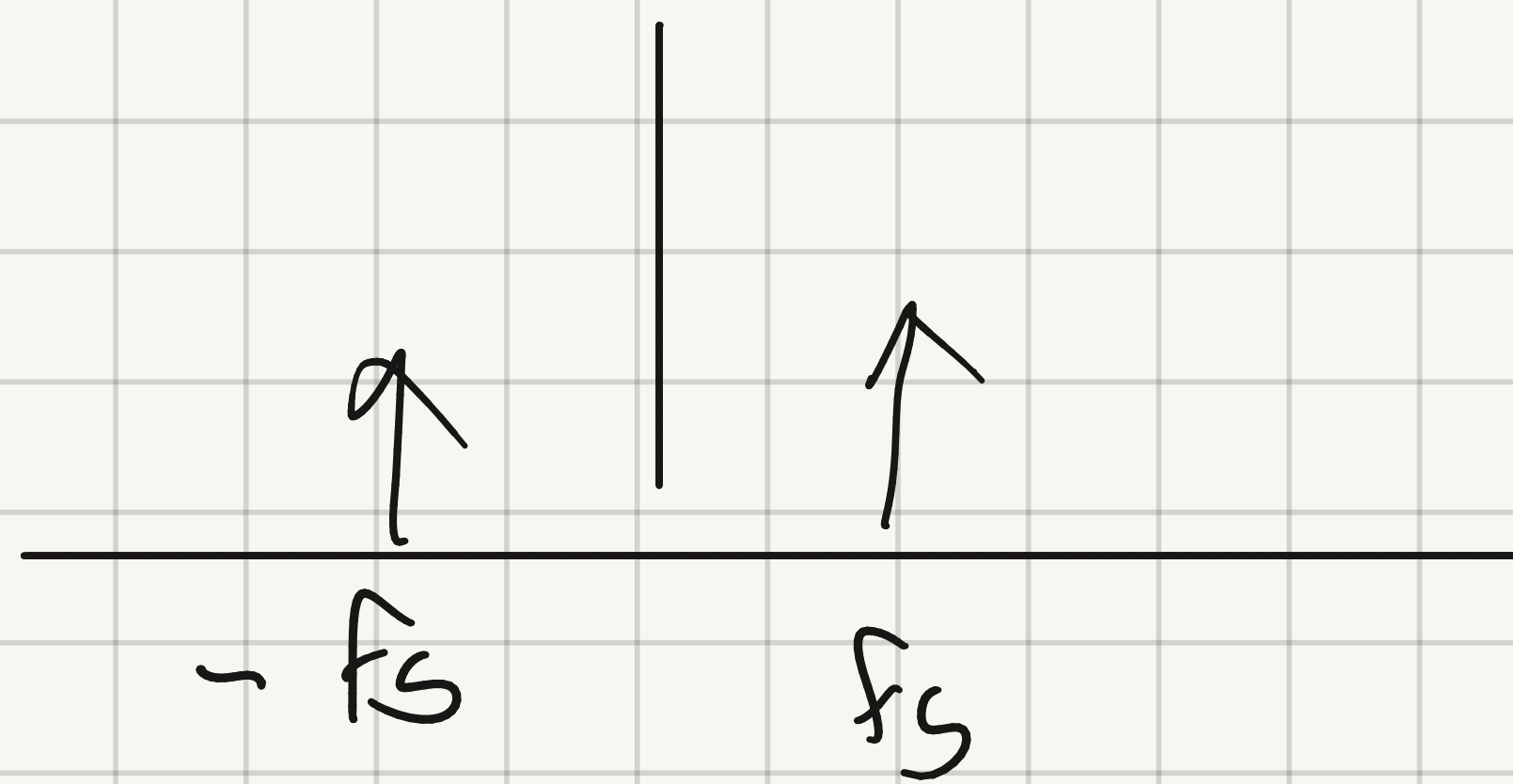
$$f_c - f_L = 298.753$$



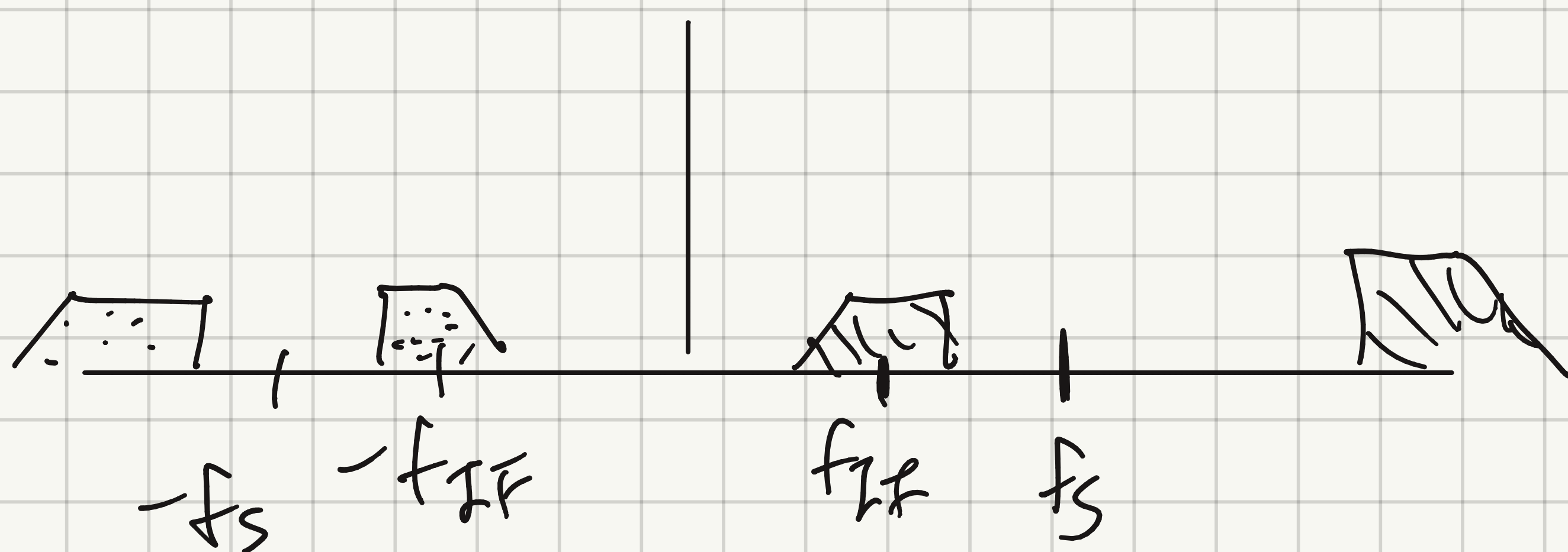
10 10



\*  
Sample at  $\frac{40}{7}$  MHz.



⇓



$$f_{IF} = f_s - 298.753$$

$$= \frac{40}{7} - 298.753$$

$$= -293.0390 \text{ MHz}$$

$$f_{IF} = -\frac{40}{7} + 298.753$$

$$= 293.0390 \text{ MHz}$$

