

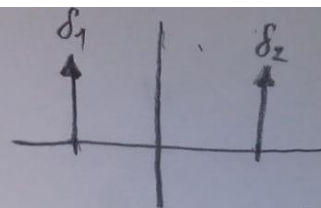
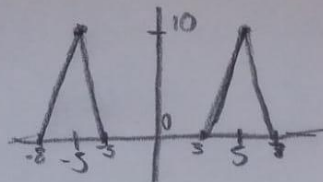


20-5-2021

Evidencia 2.4

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$$f_1 * f_2 = f_1 * (\delta_1 + \delta_2) \\ = f_1 * \delta_1 + f_1 * \delta_2$$



$$\delta_1 = 2\delta(t+5)$$

$$\delta_2 = 2\delta(t-5)$$

$$\text{So } f(t) * \delta(t+t_0) = f(t+t_0)$$

$$f_1 * (2\delta(t+5)) \\ = 2 f_1 * \delta(t+5)$$

Entonces

$$f_1 * f_2 = 2f_1 * \delta(t+5) + 2f_1 * \delta(t-5) = 2f_1(t+5) + 2f_1(t-5)$$

$$f_1 * f_2$$

