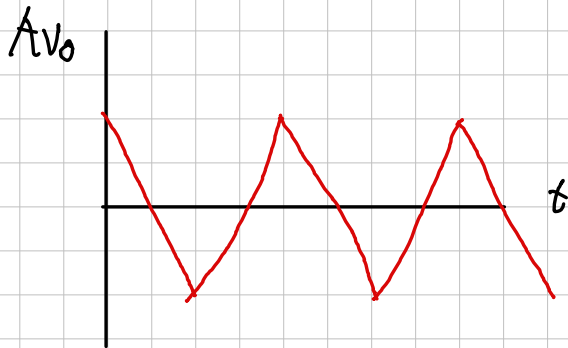
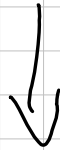
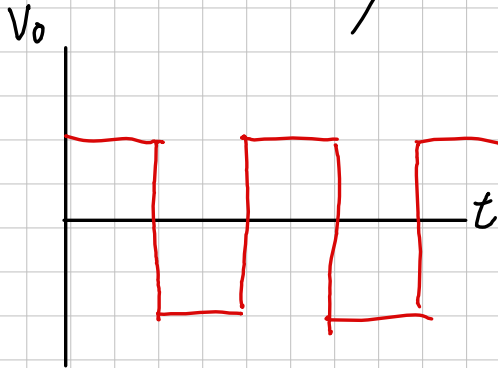
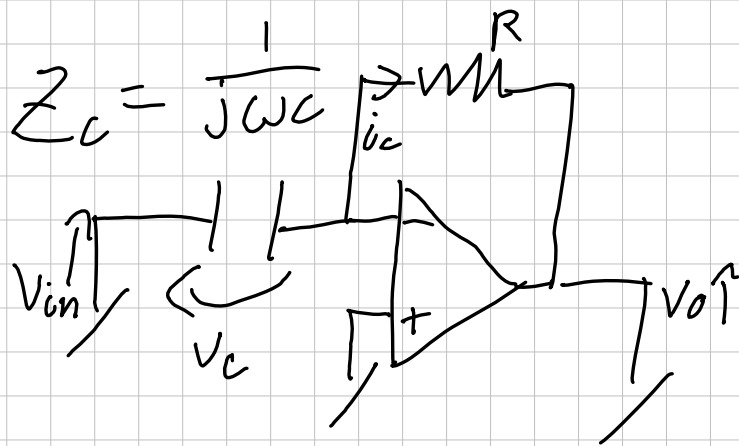


$$V_o = -\frac{1}{CR} \cdot \int v_i dt$$

Integrator (I)

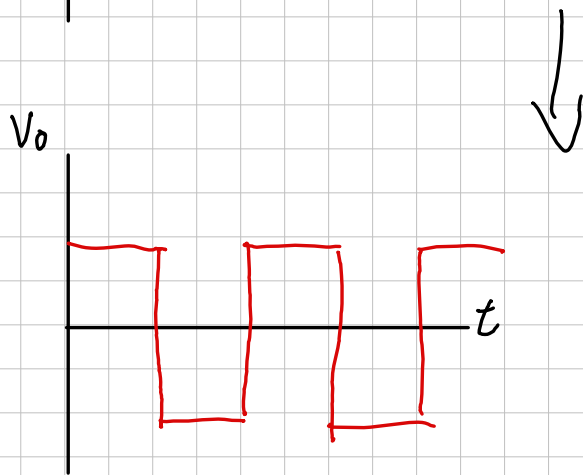
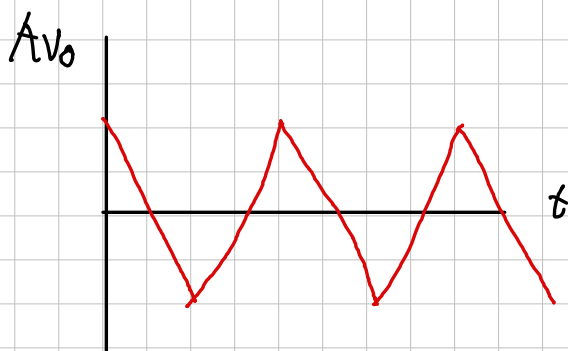




Diffs (D)

$$V_o = -i_c \cdot R = C \cdot \frac{dV}{dt} \cdot R$$

$$= -CR \frac{dV_{in}}{dt}$$



$$\alpha = \frac{R}{-R + \frac{1}{j\omega C}} = - \frac{j\omega CR}{1 + CR} \cdot i f_p = \frac{1}{2\pi CR}$$

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$$\beta = - \frac{V_{in}}{V_o} = \frac{\frac{1}{j\omega C}}{R + \frac{1}{j\omega C}} = \frac{1}{1 + j\omega CR} \Rightarrow$$

$$\frac{1}{\beta} = 1 + j\omega CR$$

$$f_z = \frac{1}{2\pi CR}$$