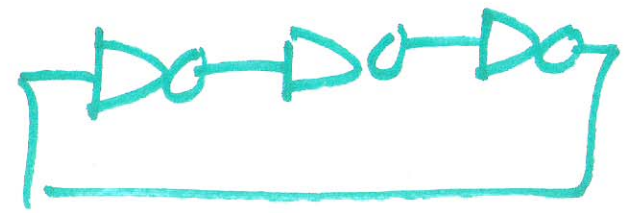
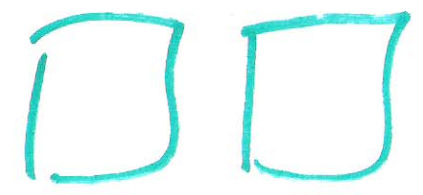
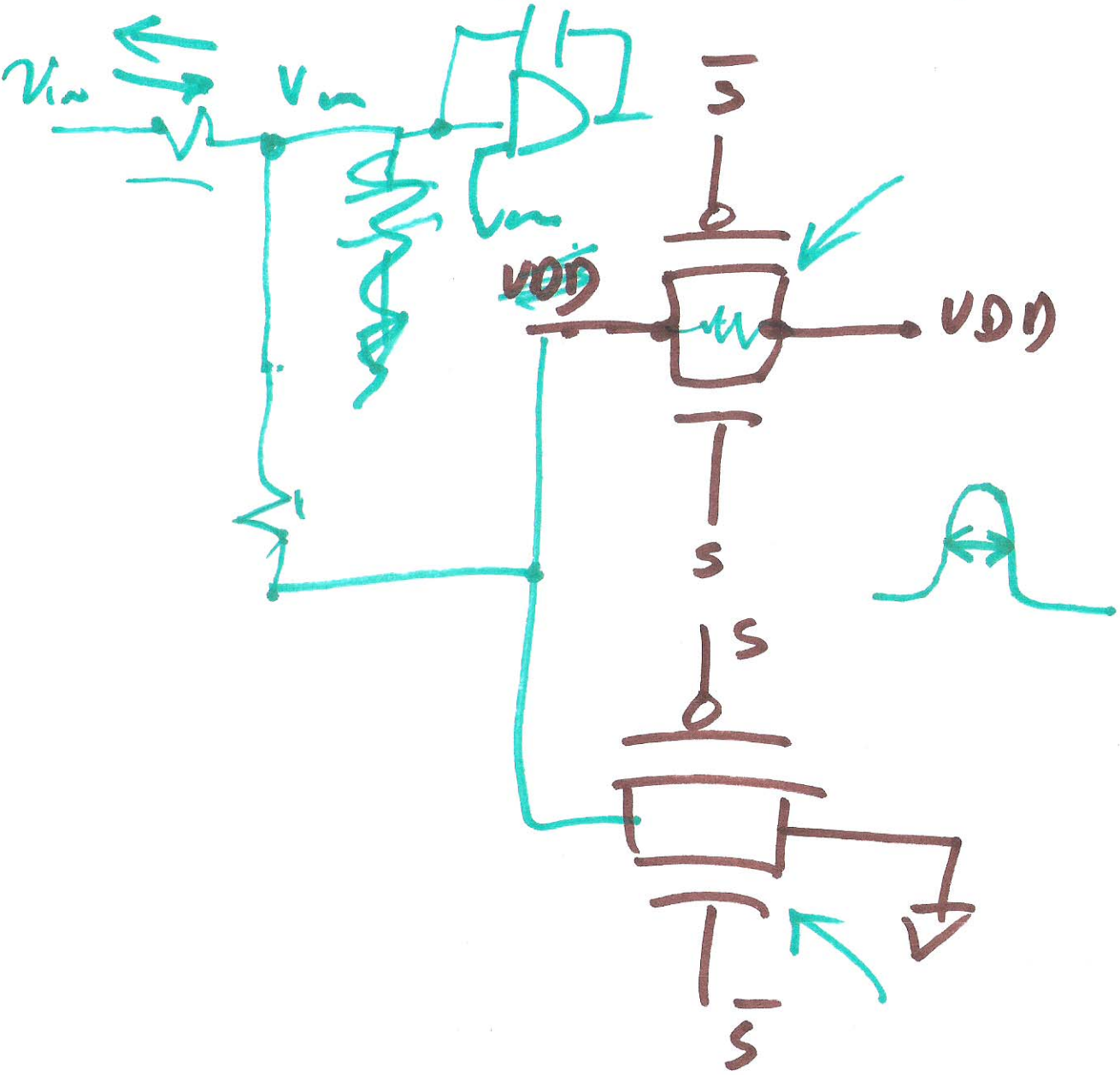
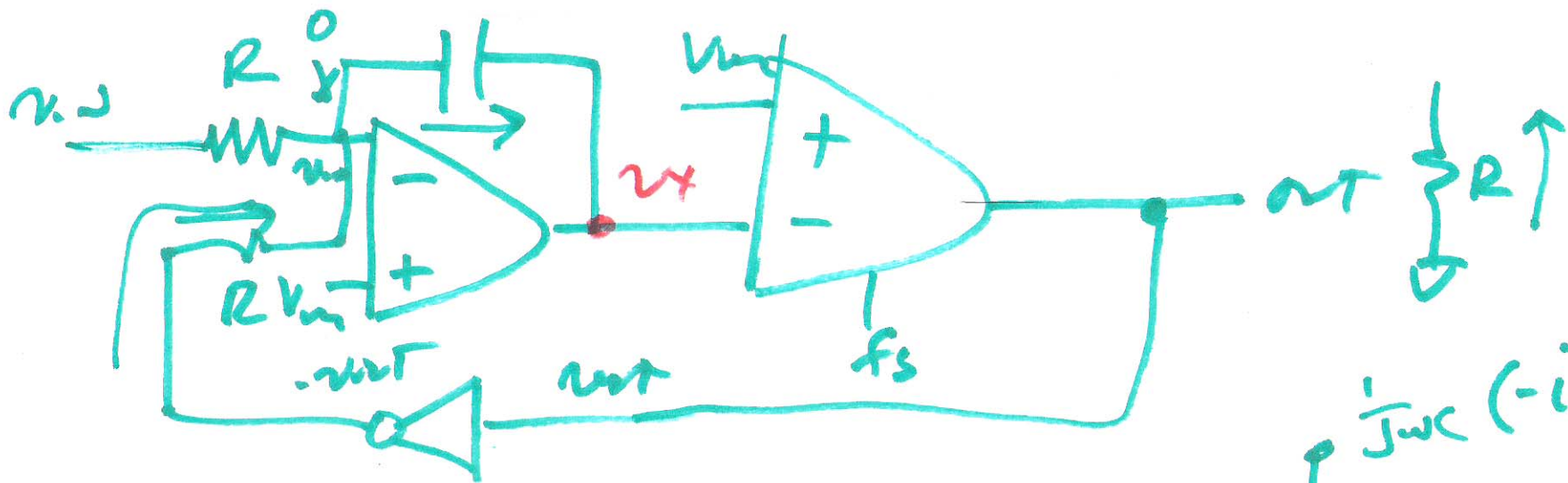


K-O-1S

Active Integrator

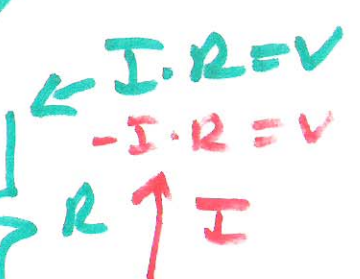
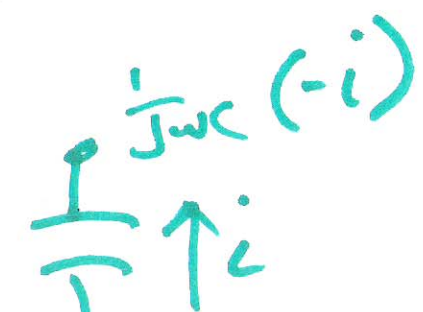


1)



$$\# \left(\frac{-v_{in}}{R} + \frac{v_{out}}{R} \right) \frac{1}{j\omega C}$$

$$\# V_{QP}(f) = v_{out}$$



$$-\frac{v_{in}}{j\omega RC} - V_{QP} = v_{out} \left(1 - \frac{1}{j\omega RC} \right)$$

$$+v_{in} - V_{QP} j\omega RC = v_{out} (\#1 + j\omega RC)$$

2)

$$V_{in} + V_{op} j\omega RC = V_{out} (1 + j\omega RC)$$

$$V_{out} = \frac{V_{in}}{1 + j\omega RC} + V_{op} \frac{j\omega RC}{1 + j\omega RC}$$

3)