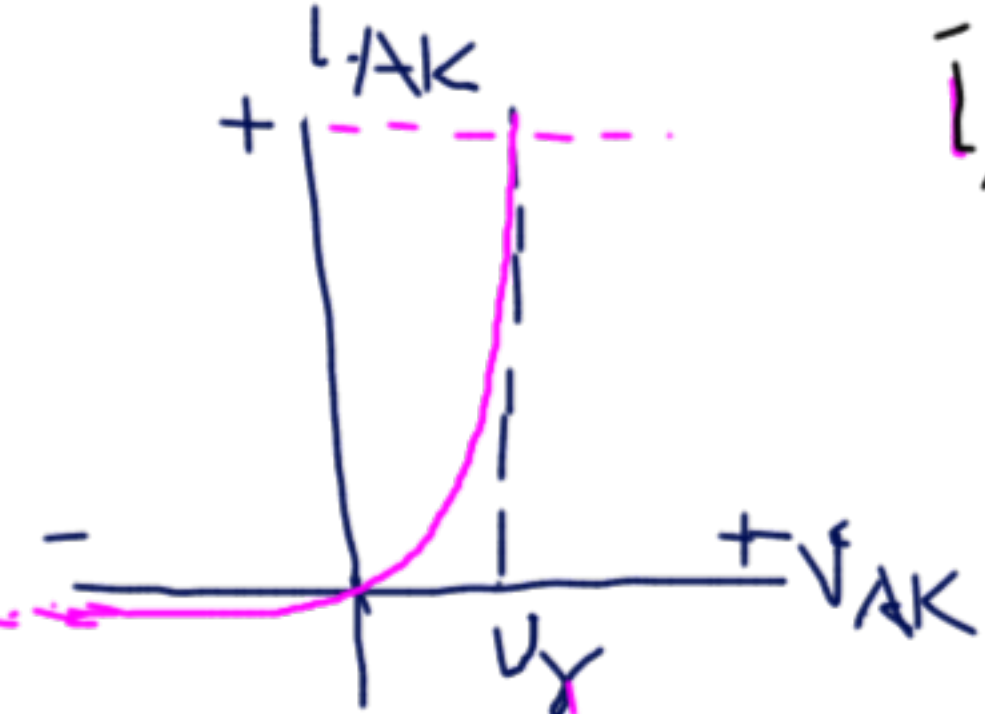
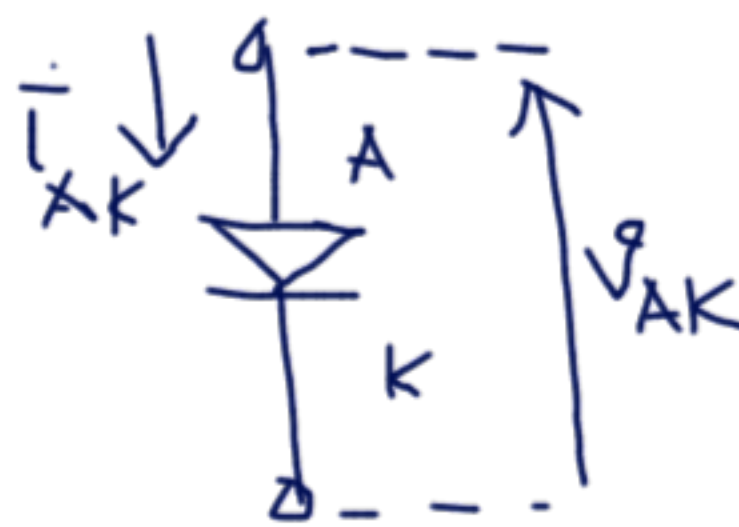
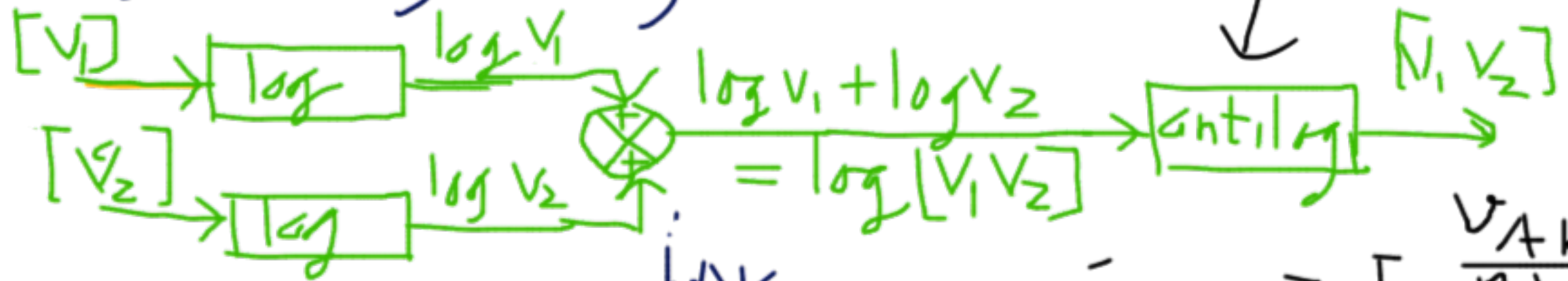


* Pengali dengan log-amp (1 kuadran)



$$I_{AK} = I_0 \left[e^{\frac{V_{AK}}{\eta V_T}} - 1 \right]$$

$$e^{\frac{V_{AK}}{\eta V_T}} \gg 1 = e^0$$

$$\frac{V_{AK}}{\eta V_T} \gg 0$$

$$V_{AK} \gg 0$$

$$I_{AK} \approx I_0 \left[e^{\frac{V_{AK}}{\eta V_T}} \right]$$

η untuk silikon = 2

$$V_T = \frac{kT}{q} = \frac{T}{11000}$$

Misalnya suhu $27^\circ\text{C} = 300\text{ K} \rightarrow V_T = 27.3\text{ mV}$

$$= 0,027274\text{ V}$$