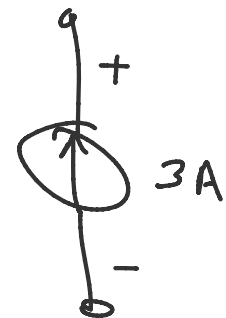


$$P = V \cdot I = 5 \cdot 4.54 \mu W < \phi$$

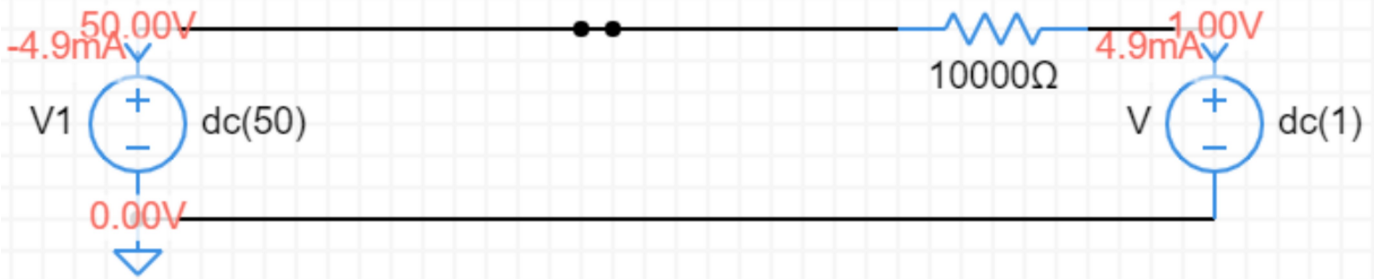


D 5. v . 1

$$P_u = 50 \text{ V} \cdot (-4.9 \text{ mA}) \approx 250 \text{ mW}$$

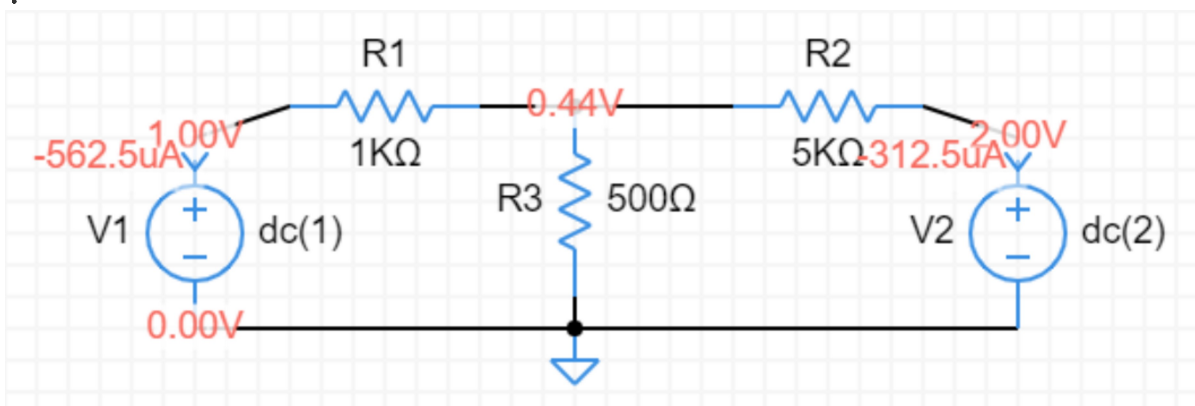
b-

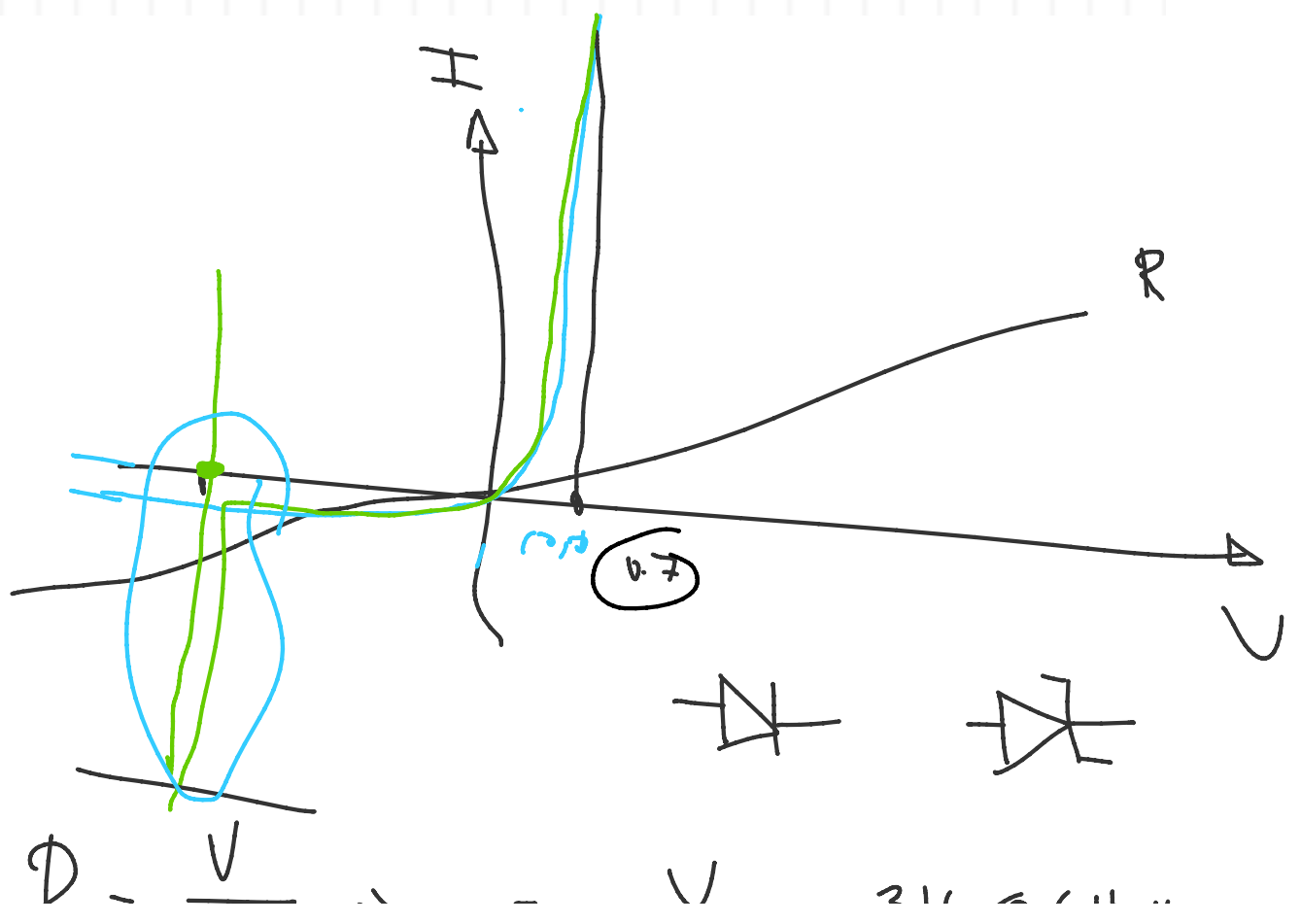
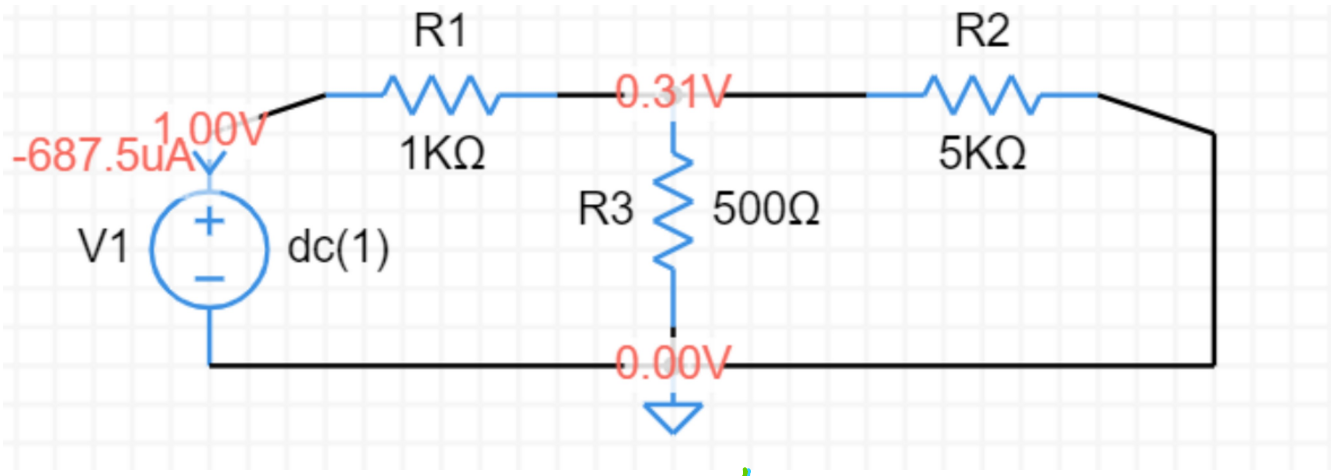
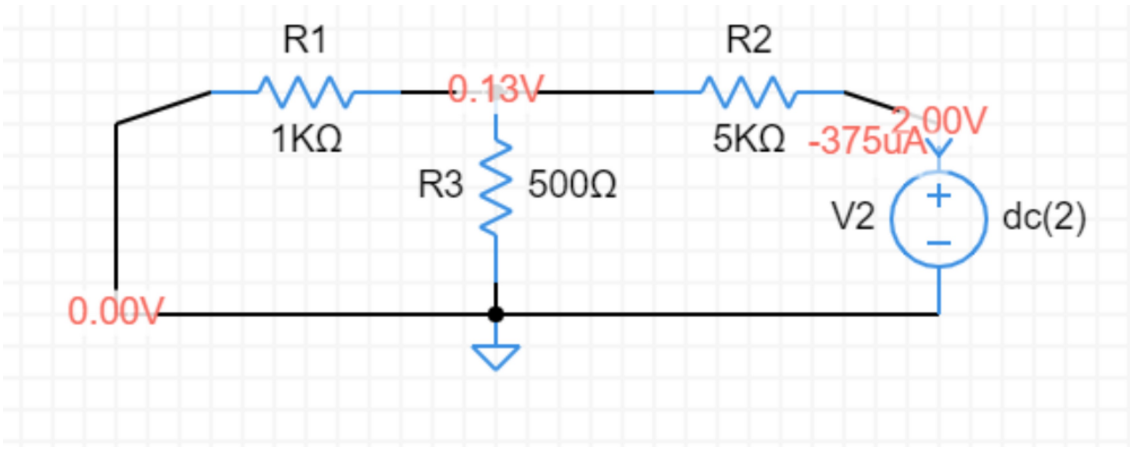
$$P_{u1} = P_R + P_V$$



$$P_R = 10 \text{ k}\Omega \cdot (4.9 \text{ mA})^2$$

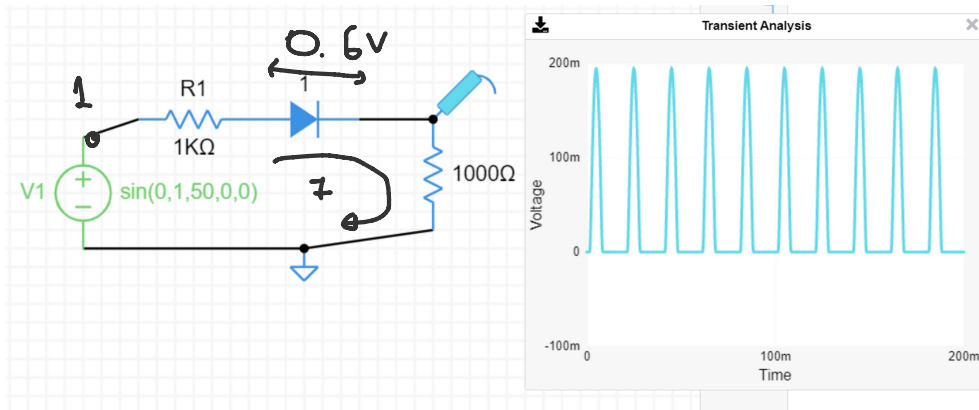
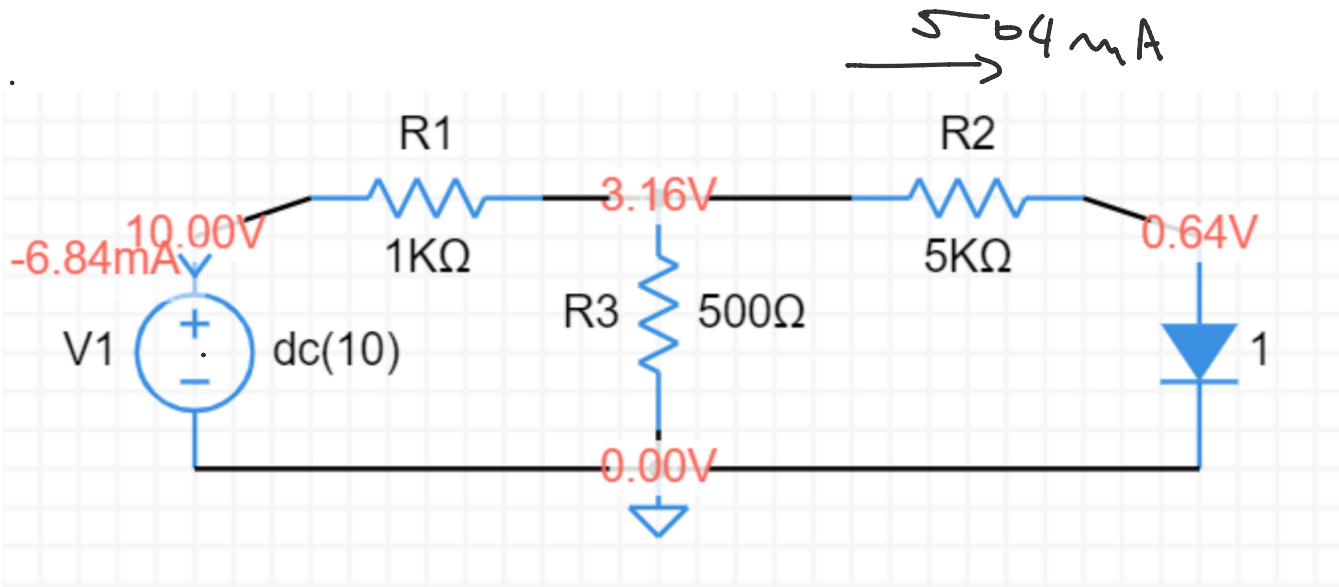
$$P_V = 1 \text{ V} (-4.9 \text{ mA})$$





$$R = \frac{V}{I} \Rightarrow I = \frac{V}{R} = \frac{3.16 - 0.64 \text{ V}}{5 \text{ k}\Omega}$$

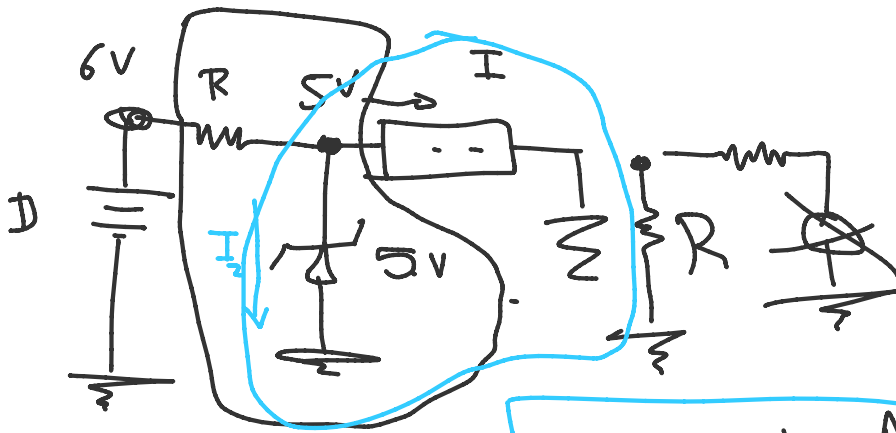
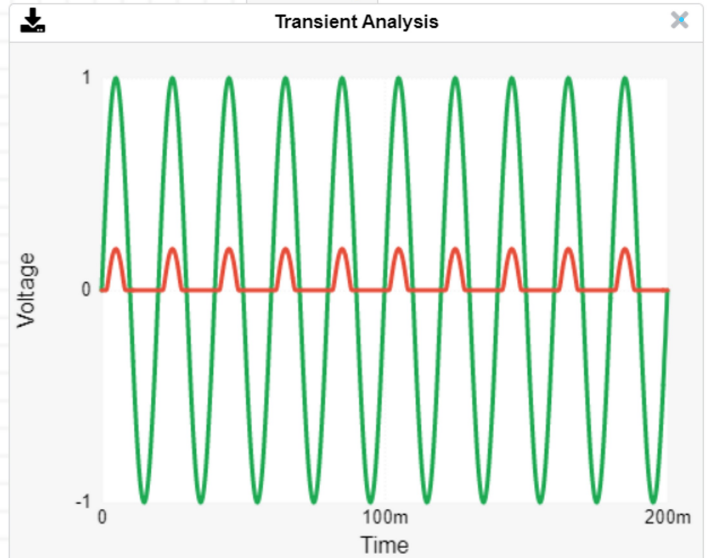
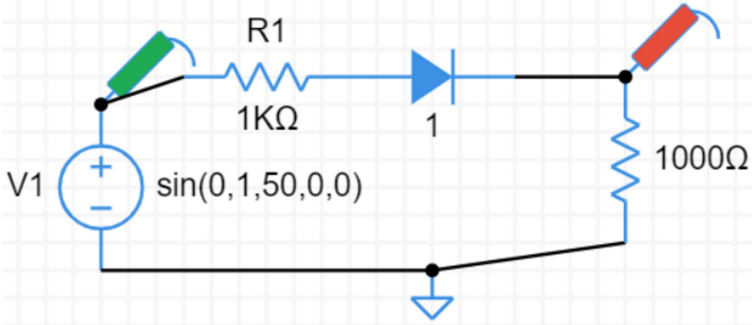
$$= 504 \text{ mA}$$



$$I = \frac{0.4}{2 \text{ k}\Omega} = 200 \mu\text{A}$$

$$200 \cdot 10^{-3} \text{ A} = 200 \cdot 10^{-3} \text{ A} = 0.2 \text{ V}$$

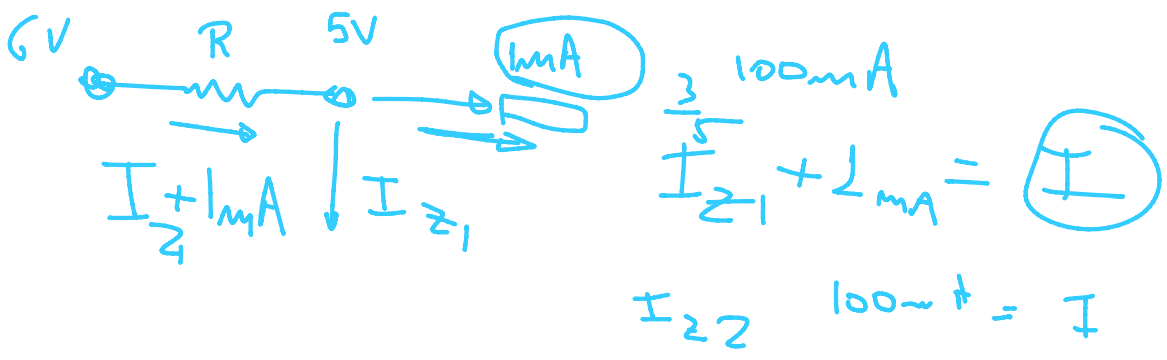
200 mV



$$I_{min} = 1 \text{ mA}$$

$$I_{max} = 100 \text{ mA}$$

$$P_{max} = 5 \cdot I_2 = 3 \text{ W}$$



$$3 = 5 \cdot I_{21} \Rightarrow \frac{3}{5} \text{ A} = I_2$$