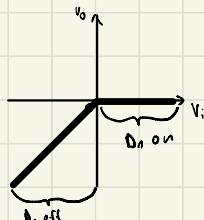


Exercise 4.

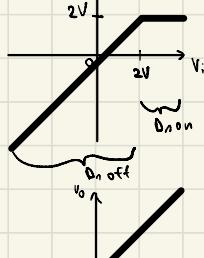
Robert Jakunek

9.

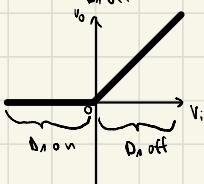
a)



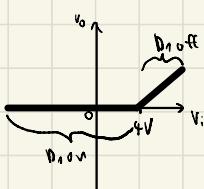
b)



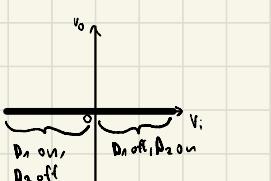
c)



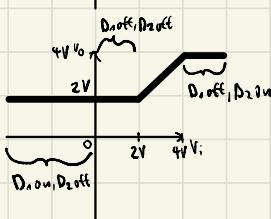
d)



e)



f)

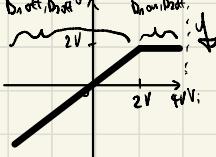


$D_1 \text{ on, if: } V_{in} > 2V$

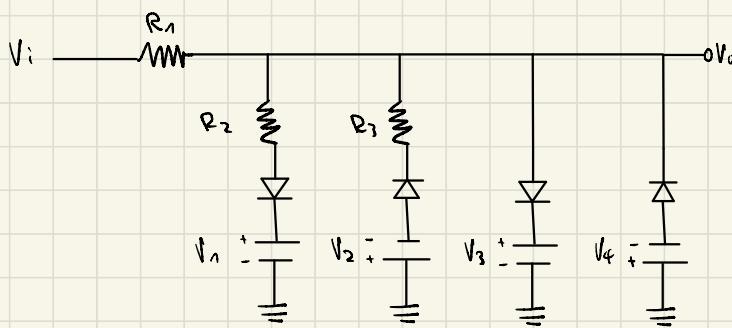
$D_2 \text{ on, if: } V_{in} > 4V \Rightarrow \text{If } V_{in} > 4V : V_{in} = 2V + 4V \downarrow$

This circuit is not functional

g)



10.



$$V_1 = V_2 = 2V; V_3 = V_4 = 4V$$

$$\frac{R_2}{R_2+R_1} = \frac{R_3}{R_3+R_1} = \frac{1}{2} \Rightarrow \text{For example: } R_1 = R_2 = R_3 = 1k\Omega$$