

Subject:

Year.

Month.

Date.

۱۳۹۸/۰۱/۰۱

مدرس: دکتر محمد علی...

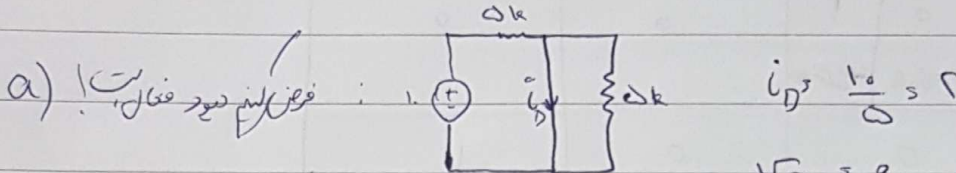
$$P = A.E$$

$$Q = B.C$$

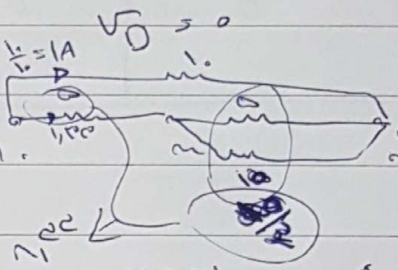
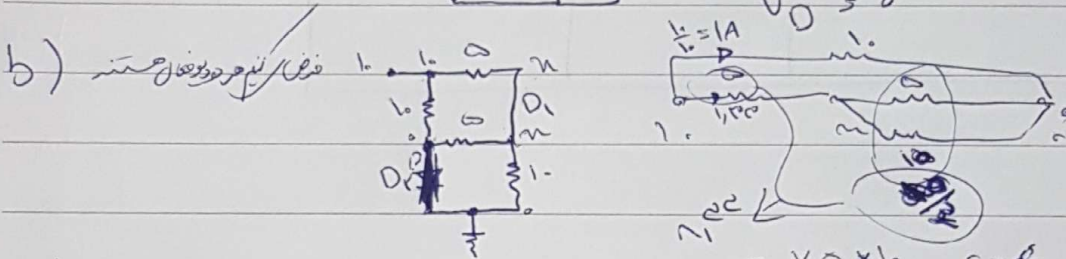
$$Y = P + Q + D$$

$$\Rightarrow Y = A.E + B.C + D$$

(۲)



(۳)



$$R = \frac{10 \times 10}{10} = 10 \text{ k}\Omega \quad I_D = \frac{10}{10} = 1 \text{ A}$$

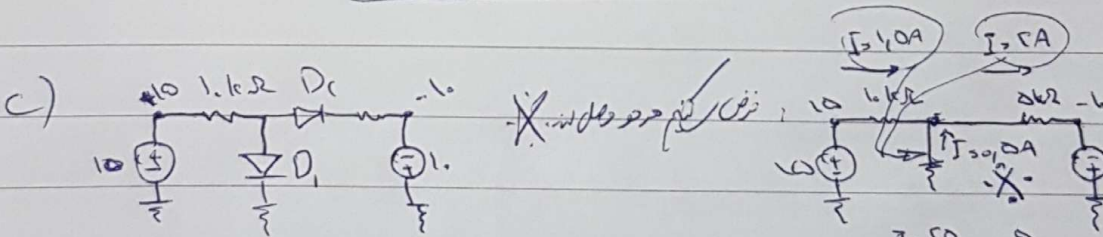


$$V_m = 10 \text{ V}$$

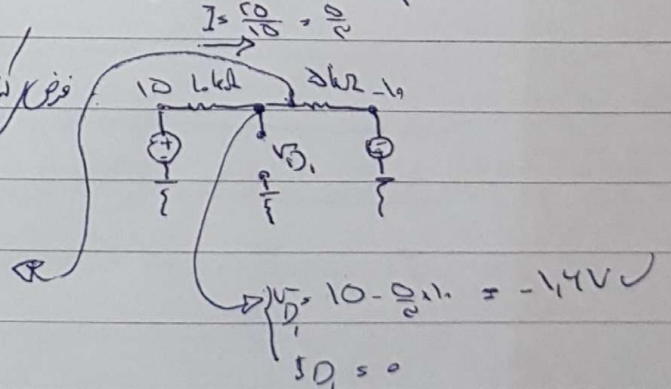
$$P: I = \frac{10}{10} = 1 \text{ A}$$

$$I_{D1} = 1 \text{ A}, V_{D1} = 0$$

$$I_{D2} = 1 \text{ A}, V_{D2} = 0$$



فولت‌های V_{D1} و V_{D2} را بیابید



$$V_{D1} = 0$$

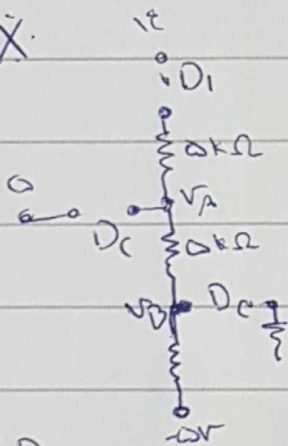
$$I_{D1} = \frac{10}{10} = 1 \text{ A}$$

$$V_{D2} = 10 - 10 = 0 \text{ V}$$

$$I_{D2} = 0$$

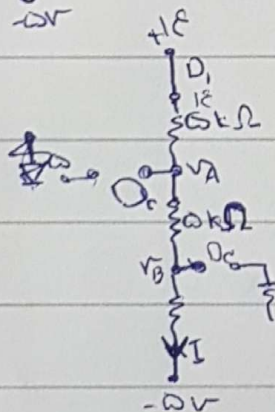


X. فرض اسم و در دو جا غرض



$$V_{D_1} = \frac{I_{E1} R_D}{\omega} = \frac{19}{\omega} \Rightarrow V_{D_1} = 10.95 \text{ V}$$

D_1 فعال و D_2, D_3 غیر فعال



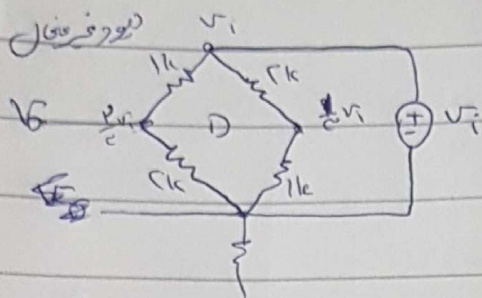
$$I = \frac{18 + \Delta}{\Delta + 2 + \Delta}, \frac{19}{10} = I_D$$

$5D_5 \rightarrow 10_2 \rightarrow 0$

~~V~~

$$\sqrt{A} = 18 - \frac{19}{10} \times 2, \quad 18 - \frac{19}{5} =$$

$$V_B = V_A - \frac{19 \times 0}{10} = 18 - \frac{19}{2} - \frac{1}{2} = 16$$

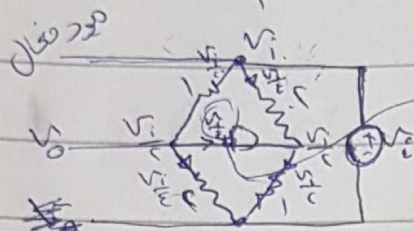


الف (4)

$$V_N - V_M = \frac{1}{2} V_i - \frac{1}{2} V_i = +\frac{1}{2} V_i$$

نمودار مدار

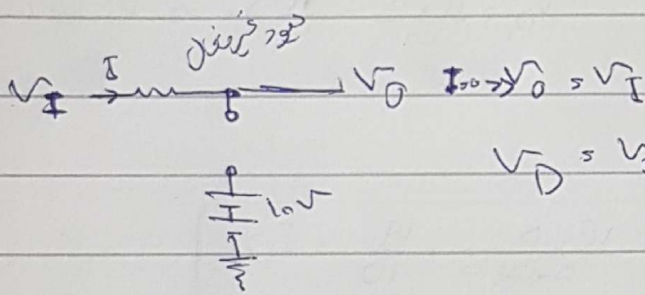
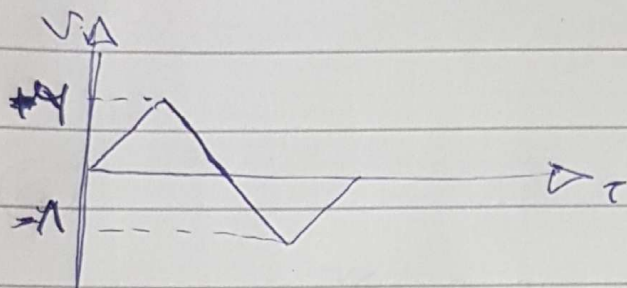
$$V_N - V_M = 0$$



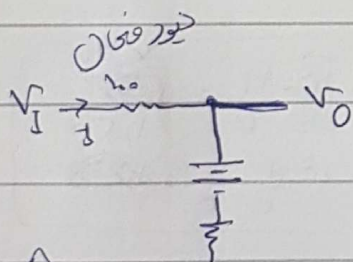
$$V_D = \frac{V_i}{2}$$

$V_D = 0$ ✓

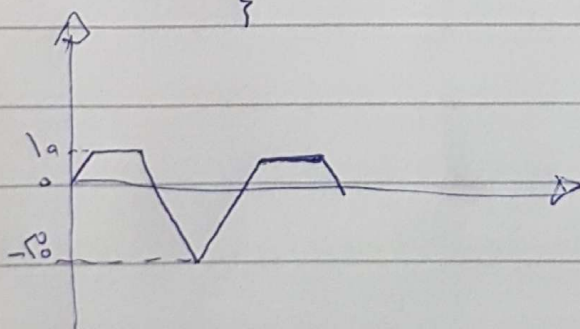
~~نمودار مدار~~



$$V_D = V_i - 1.0, \quad V_D < 0.2, \quad V_i < 1.0$$



$$V_D = 1.0 \text{ V} \checkmark$$



TAT