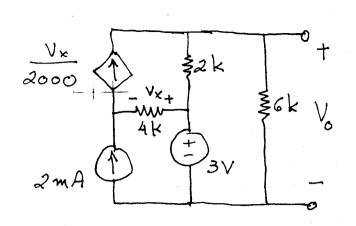
(212) 1-11671 112x-1 ENDN 1778 EIRN

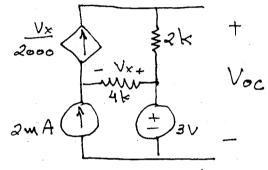


E3N, PUDS 8000 NES

(25,134 Libe outs 1940) CKN 361 OUTS (25,136)

$$\frac{V_{x}}{2000} = 2 \times 10^{-3} + \frac{V_{x}}{4000}$$

$$\Rightarrow$$
 $V_{\times} = 8 \vee$



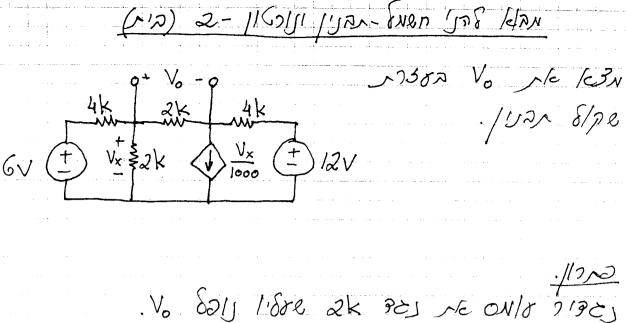
$$\Rightarrow V_{cc} = 3V + (2k \pi) \cdot \left(\frac{V_{x}}{2000}\right) = 11V$$

$$I_1 = \frac{3v}{2000}$$

$$\implies I_{SC} = \frac{V_x}{2000} + \frac{3}{2000} = \frac{11}{2} \text{ m A}$$

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$$V_o = V_{oc} \left(\frac{Gk}{Gk + 2k} \right) = \frac{33}{4}V$$



.Vo 8211 1/880 2K 901 1/80 2/8 2/901 ON/ON NE PASI, Voc NEIBNS

$$V_{oc} = V_x - \left[12 - \frac{V_x}{1000} \cdot 4 k \right] = -2 V$$

$$\frac{1000}{1000} \text{ Fe } 1378 \text{ et, } I_{SC}, 1379 \text{ productions}$$

$$\frac{4k}{4k} \frac{I_{SC}}{4k} \frac{4k}{1000} \frac{12-V_x}{4k} + I_{SC} = \frac{V_x}{1000}$$

$$I_{SC} = -\frac{3}{16} \text{ mA} \qquad \qquad \frac{6 - V_x}{4 \text{ k}} = I_{SC} + \frac{V_x}{2 \text{ k}}$$

$$I_{SC} = -\frac{3}{16} \text{ mA}$$

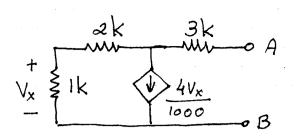
$$R_{TH} = \frac{V_{oc}}{I_{Sc}} = \frac{32}{3} k \pi$$

2918 LEVY:

$$V_0 = -2 \cdot \left(\frac{2}{2 + 32/3}\right) =$$

$$= -\frac{6}{19}$$

(NA) 3- 116211 1UAN-ENRU 1708 EVAN



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$$\frac{2k}{\sqrt{x}} = \frac{3k}{\sqrt{4}} = \frac{1}{\sqrt{4}}$$

$$I_{o} = \frac{V_{x}}{Ik} + \frac{4V_{x}}{Ik}$$

$$V_{x} + \frac{V_{x}}{Ik} \cdot 2k + 3k \cdot I_{o} = 1$$

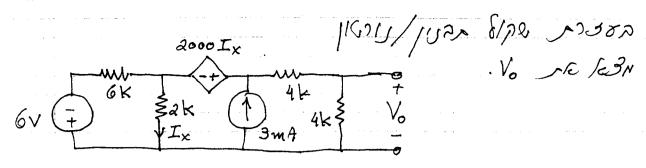
$$R_{TH} = \frac{1}{I_o} = 3.6 \text{ kg} \leftarrow I_o = \frac{5}{18} \text{ mA} \leftarrow$$

(rools acre)

 $\frac{3k}{\sqrt{x}} = \frac{3k}{\sqrt{4V_{x}}} + \frac{4V_{x}}{\sqrt{900}} \Rightarrow \sqrt{x} = \frac{1}{5}V \Rightarrow \sqrt{9} = \frac{1}{1600} = \frac{\sqrt{x}}{\sqrt{900}} + \frac{4V_{x}}{\sqrt{900}} \Rightarrow \sqrt{x} = \frac{1}{5}V \Rightarrow \sqrt{9} = \sqrt{x} + \frac{1}{16} + \frac$

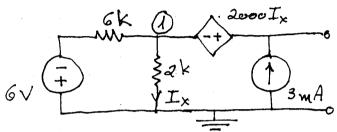
$$\Rightarrow$$
 R_{Th} = $\frac{V_o}{1m}$ = 3.6 kg

(1) 4- /1(1)/1/1/1/1 (A'A)



1668 8/72 63NJ1, 4k + 4k 19CD ONBA JE 219CJ
6K OD N. 2000 Ix

6K OD N. 2000 Ix

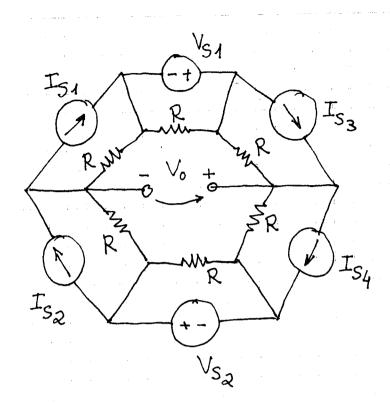


קצר בין שני ההפקים מקצר שת מקור הצרס ולכן : Voc בשאל . Isc = 3mA

$$\begin{cases} \frac{V_1+6}{6k} + I_x = 3mA \\ I_x = \frac{V_1}{2k} \end{cases} \Rightarrow \begin{cases} V_1 = 3V \\ V_2 = \frac{3}{2}mA \end{cases} \Rightarrow V_0 = 6V$$

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מציאת בד לעוצא שקול נורטון ונמיר לתהנין).
נמיר את מקורות הכרס למקורות מתח וענתק שת
הניבים המקהיל למקורות המתח (הם שינס משפיזים):

$$I_{Sc} = \frac{R \cdot I_{S1} + V_{S1} + R \cdot I_{S3}}{2R} - \left(\frac{R \cdot I_{S2} + V_{S2} + R I_{S4}}{2R}\right)$$

$$R \cdot I_{S2} + \frac{R \cdot I_{S3}}{2R} - \left(\frac{R \cdot I_{S2} + V_{S2} + R I_{S4}}{2R}\right)$$

Busin 428 igeo nella egui agrid 1623.