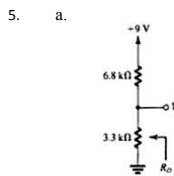


Soluciones numéricas de los problemas del Tema 1

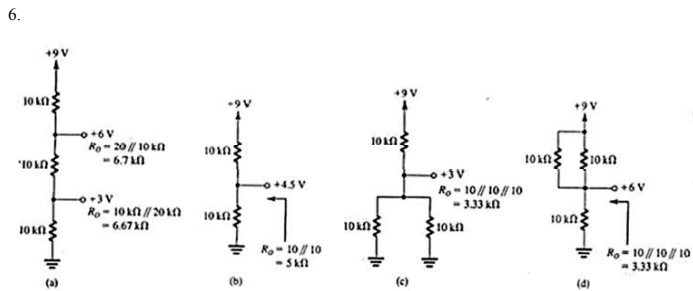
1. a. 10mA b. 10kΩ c. 100V d. 0,1A
2. a. 10V; 100mW b. 10kΩ; 10mW c. 0,1A; 100Ω d. 10V; 1kΩ e. 31,6mA; 31,6V
3. 990kΩ; 190kΩ; 90 kΩ; 10kΩ
9,9kΩ; 9,09kΩ; 5kΩ

4. $V_0 = V_{DD} \frac{R_2}{R_1 + R_2}$ $R_0 = (R_1 // R_2) = \frac{R_1 R_2}{R_1 + R_2}$

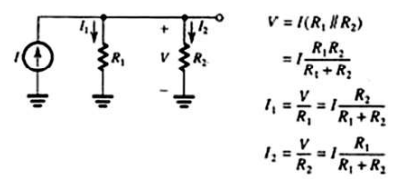


b. $V_0 = 2,94V$ $R_0 = 2,22k\Omega$

c. $V_{0,min} = 2,75V$ $V_{0,max} = 3,14V$
 $R_{0,min} = 2,11k\Omega$ $R_{0,max} = 2,33k\Omega$



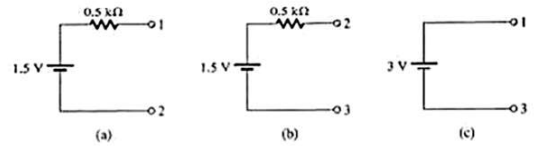
7.



8.

$R = 250\Omega$

9.



10. $V_{th} = 0,77V$ $R_{th} = 6,15k\Omega$ $I = 0,1mA$

11. $I = 4/3A$

12. $v = 4V$

13. $V_2 = 3V$ $i_2 = 0,6A$

14. $V_{th} = -8V$ $R_{th} = 12\Omega$