Q1

4.4 Find the values of I and V in the circuits shown in Fig. E4.4. Assuming the diodes are ideal.

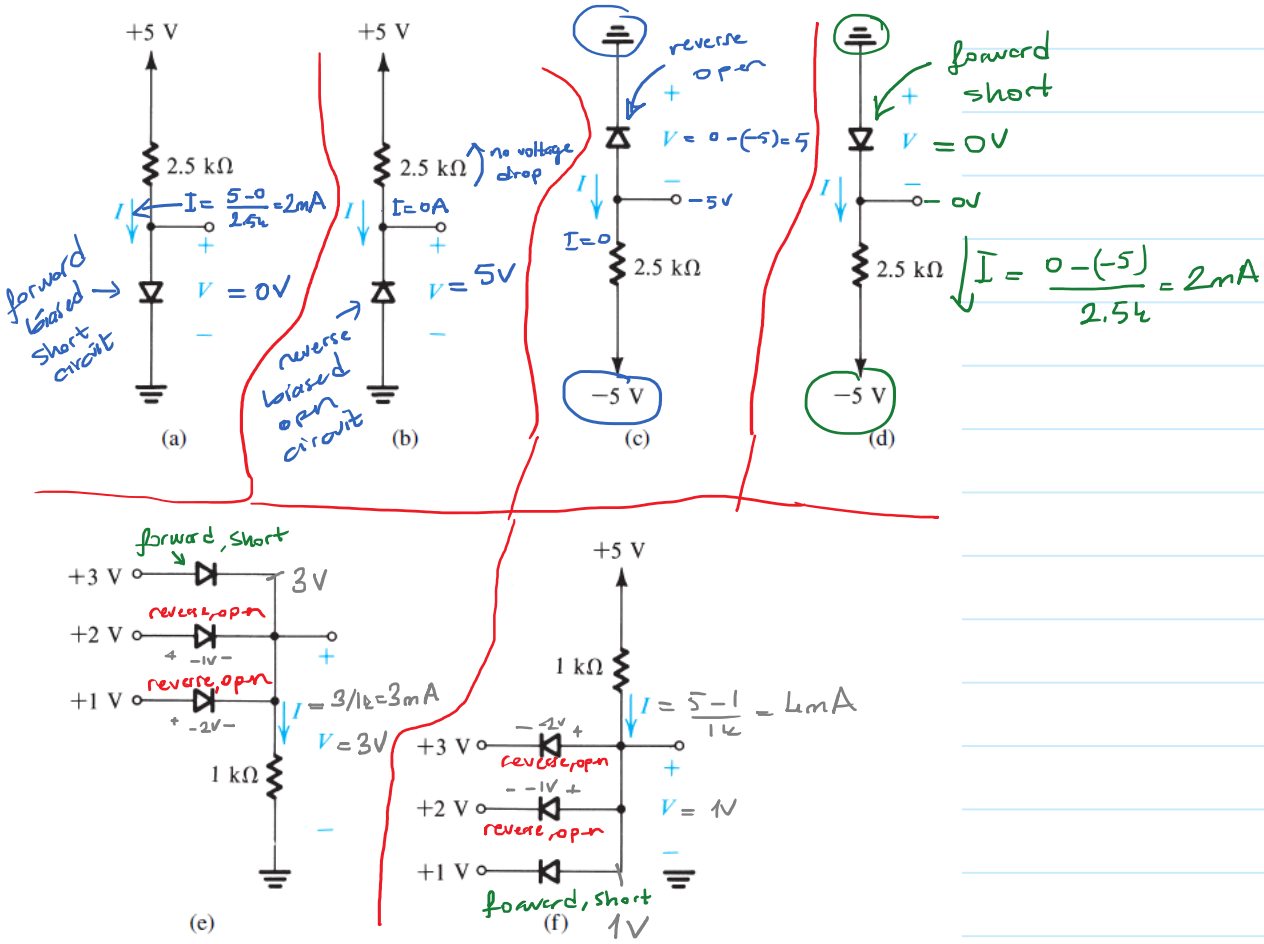


Figure E4.4

Q2

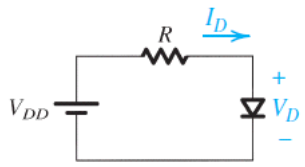
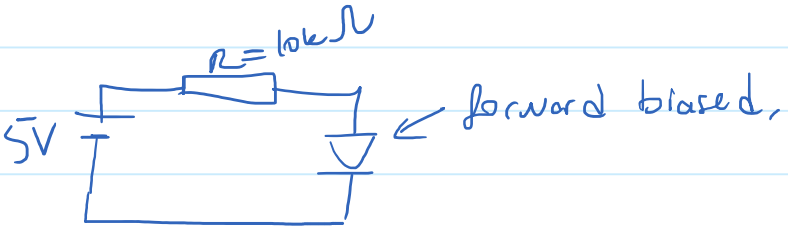
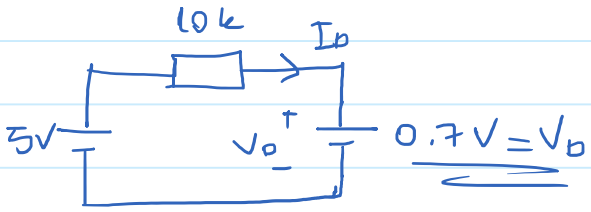


Figure 4.10

For the circuit in Fig. 4.10, find I_D and V_D for the case $V_{DD} = 5$ V and $R = 10$ kΩ. Assume that the diode has the constant-voltage-drop model with $V_D = 0.7$ V.

Ans. 0.43 mA, 0.7 V





$I_D = \frac{5 - 0.7}{10k} = 0.43\,mA$

Q3

Uncovered material, canceled!