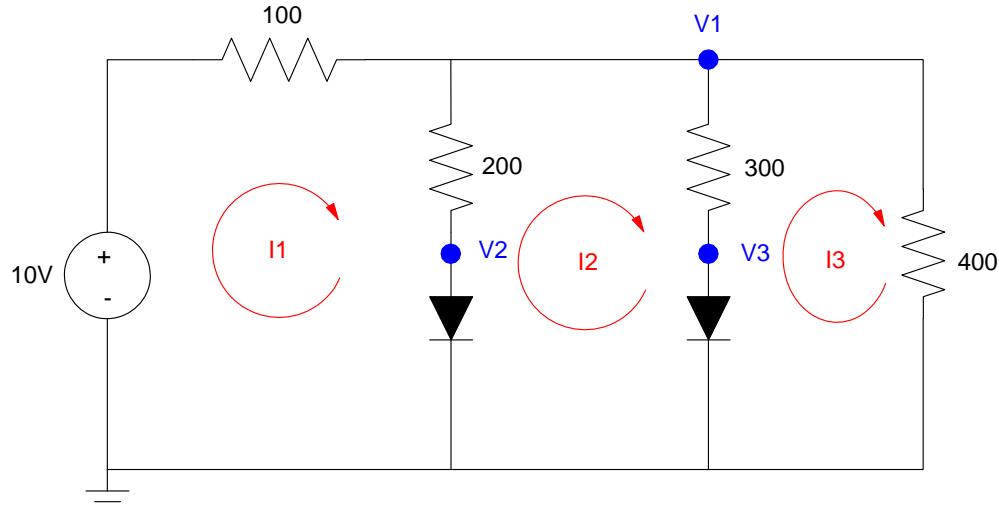


ECE 320 - Homework #2

PN Junction, Diode VI Characteristics. Due Monday, Jan 25th

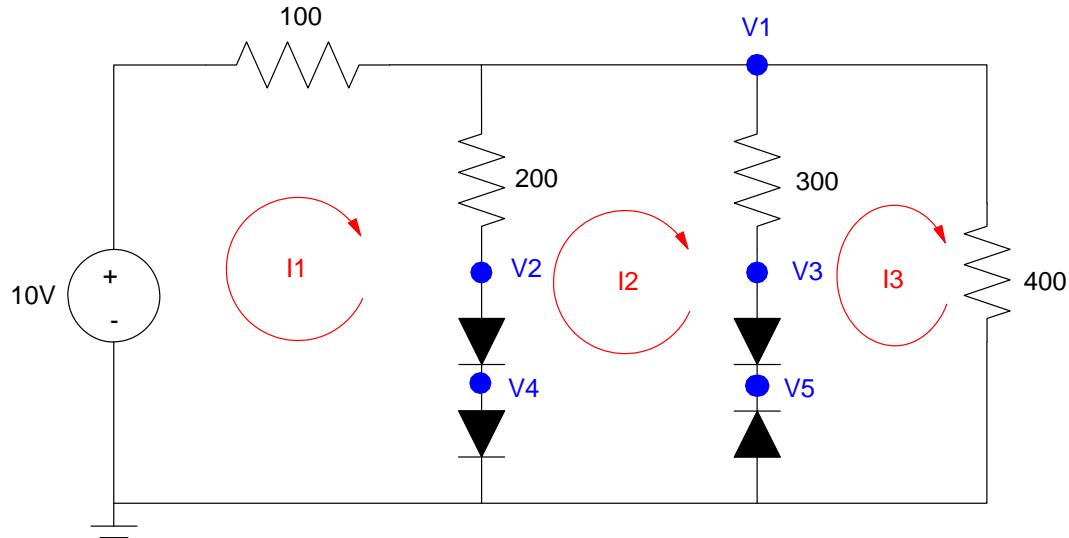
$$V_d = 0.052 \cdot \ln(10^8 I_d + 1) \quad I_d = 10^{-8} \left(\exp\left(\frac{V_d}{0.025}\right) - 1 \right)$$

- 1) Write the current loop equations
- 2) Write the voltage node equations



Problem 1 & 2

- 3) Write the current loop equations
- 4) Write the voltage node equations



Problm 3 & 4