

Questions to ask before analyzing diode circuits.

1. Are the diodes forward or reverse biased?
2. Are the forward currents large or small?
3. Is $V = V_k + IR_B$ the appropriate equation (large)?
4. Is $I = I_0 \exp\left(\frac{V}{25\text{mV}}\right)$ the appropriate equation (small)?
5. Are you interested only in small changes in the diode voltage and current?