

3 VOD=SV, R=1KA, VO=07V Solution $I_{D} = \frac{Vop - Vo}{R} = \frac{5 - o.7}{1000} = \frac{4 - 3}{1000} = \frac{4 - 3}{1000}$ To obtain better estimate of Vo V2-V1 = 2.3 V7 log (=1) 2-3VT=60mV : V2=V1+0.06 log (I) V,=07V, I,=1mA, I2=48mA -> V2=(0.738V) ID= 5-0.738=4-262mA V2 = 0.738 +0.06 log [4.262] = [0.738V] [ID=4.262mA] [Vp=0.738V] close to 197 iteration values Kalim Mahmord 18/10/2023