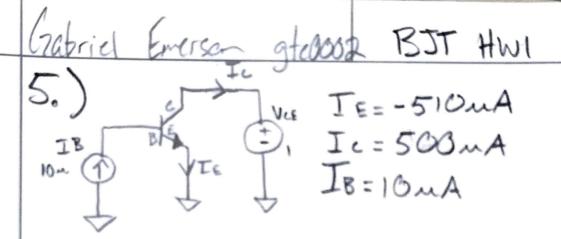
Gabriel Emerson gte0002 BJT HWI 2013/10 1.) a) VI=0.2V 500JZ 1 Ic=OA IB Rb=1K Vout = 20 V b.) V1=3V Saturated Vout= VCESat = 0.2V Ic = VCC-VCESat = 20-0.2 = 39.6mA C.) Vi= 8v saturated Vout= 0.20 Ic= Ucc-Vieset = 39.6mA 2.) a.) Label collector, base, emitter, terminals (C,B,E) b.) Transister type: NPN C.) Label UBE & VBC and directions for IE, I, Is d.) Find IE, I, IB, UBG, UBE IF I= 175mA

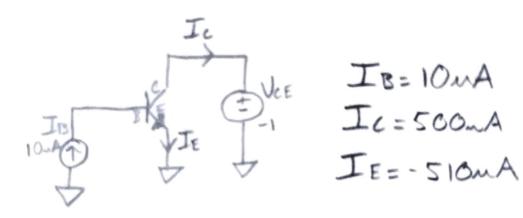
Is you II IE=I=
$$I75mA$$

Is $I8 + Ic = IE = > Ic = BAI6$

Is $I8 + Bc I8 = IE = > Ic (1+B4)$

Is $I75 = I75 = 1.73$





BJT HWI 9.65V v = 21.75V. 39.50mA