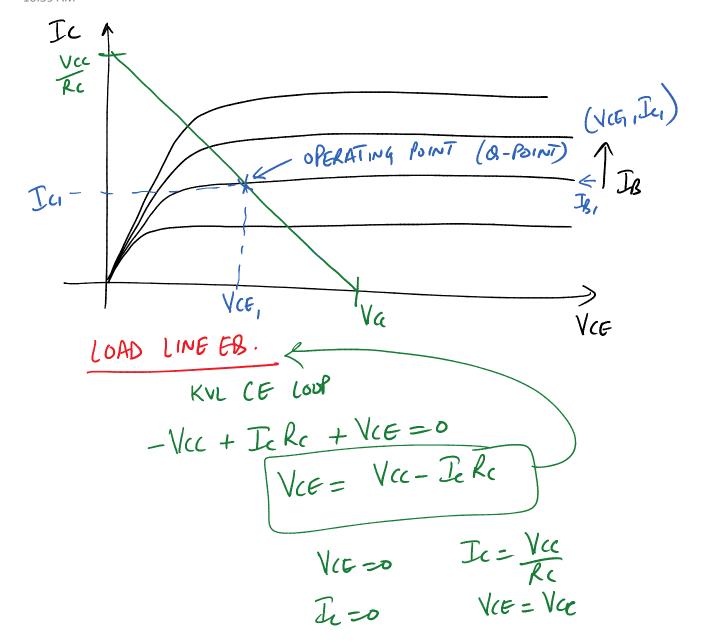
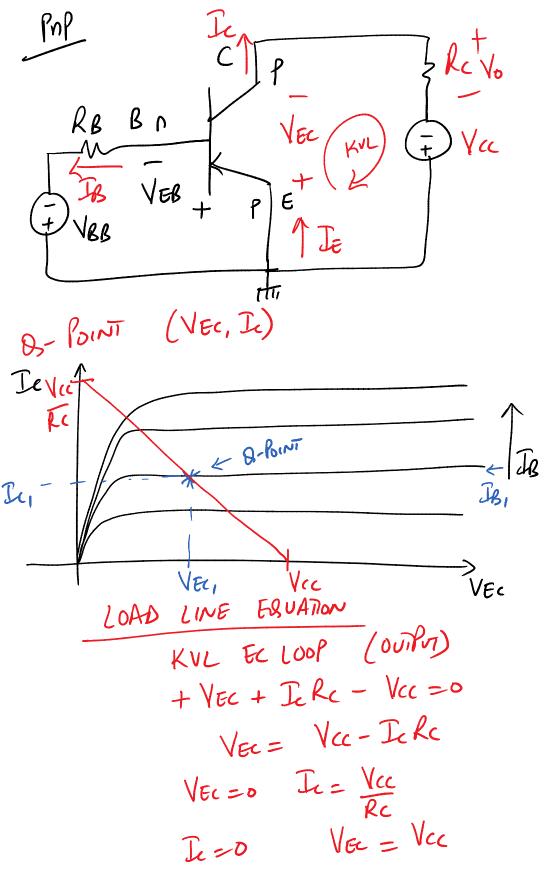
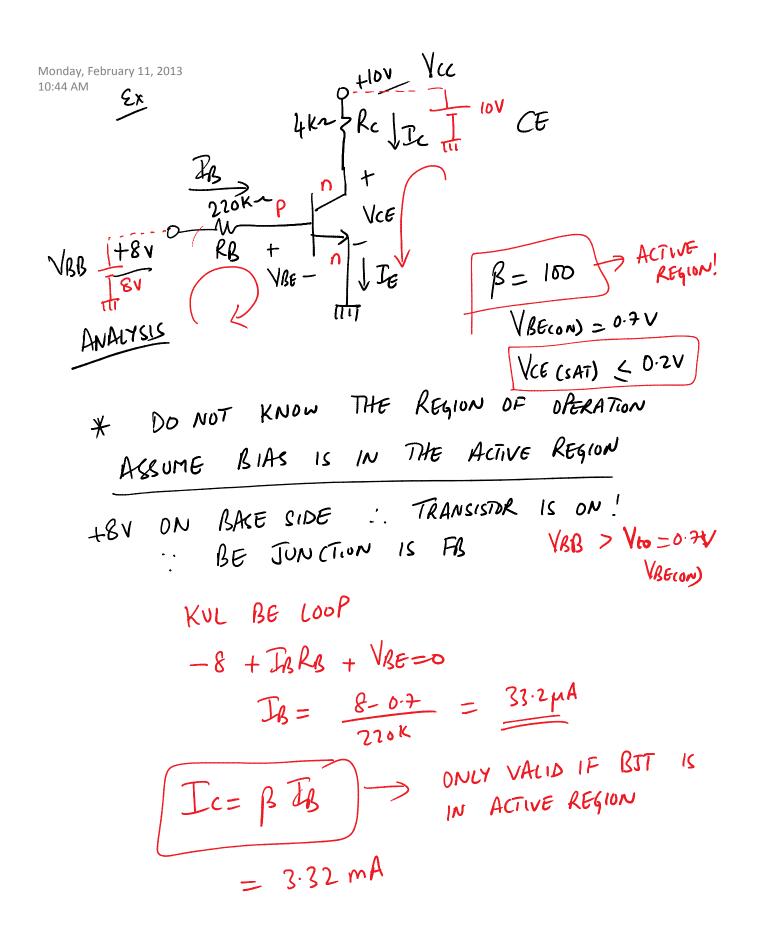
LE (TURE-26 COMMON EMITTER BJT CIRCUIT

OPERATING POINT (VCE, Ic







$$T_{B} = T_{B} + T_{C} = 2.4 \text{ cm} + 33.2 \mu = 2.48 \text{ mA}$$

$$P_{OWER} \quad DISCIPATED \quad IN \quad TRANSISTOR$$

$$P_{T} = T_{B} \quad V_{BE}(oN) + T_{C} V_{CE}$$

$$= (33.2 \mu) \quad (0.7) + (2.45 \mu) \quad (0.2)$$

$$= 0.513 \mu \text{ m}$$

STERS TO ANALYZE

- ASSUME TRANSISTUR IS BIASED IS FORWARD

 ACTIVE REGION -: VBE = VBECON), IE>O,

 IC = BIB
- 2) ANALYZE THE CIRCUIT
- (3) IF VCE > VCE (SAT), THEN O.K
- (4) IF BS <0 -> (UT-OFF IB=0 B=0) VCE=VCE

1= VCE < VCE GAT) -> SANKATION VCG= VCEGAT)

BERGO