1)
$$I_{B} = 7.54A$$
 e $I_{C} = 9404A \Rightarrow I_{E} = I_{C} + I_{D} = 947.54A$
 $B = \frac{I_{C}}{I_{B}} = 125.3$ $\alpha = \frac{I_{C}}{I_{E}} = 0.992$

2)
$$J_C = 9.5 \text{ mA}$$
 e $J_E = 10 \text{ mA}$ $\Rightarrow J_B = J_E - J_C = 500 \text{ M} = 0.5 \text{ mA}$

$$\beta = \frac{J_C}{J_B} = 19$$

$$Q = \frac{J_C}{J_E} = 0.95$$

-> LKT em (1):
-
$$V_{BE}$$
 - V_{AE} - $(-10,7)$ = 0
 V_{RE} = $50,7$ - $0,7$ = 50
 J_{E} = $\frac{V_{RE}}{R_{E}}$ = J_{BA}
 V_{L} = V_{AE} + $(-50,7)$ = $-0,7$

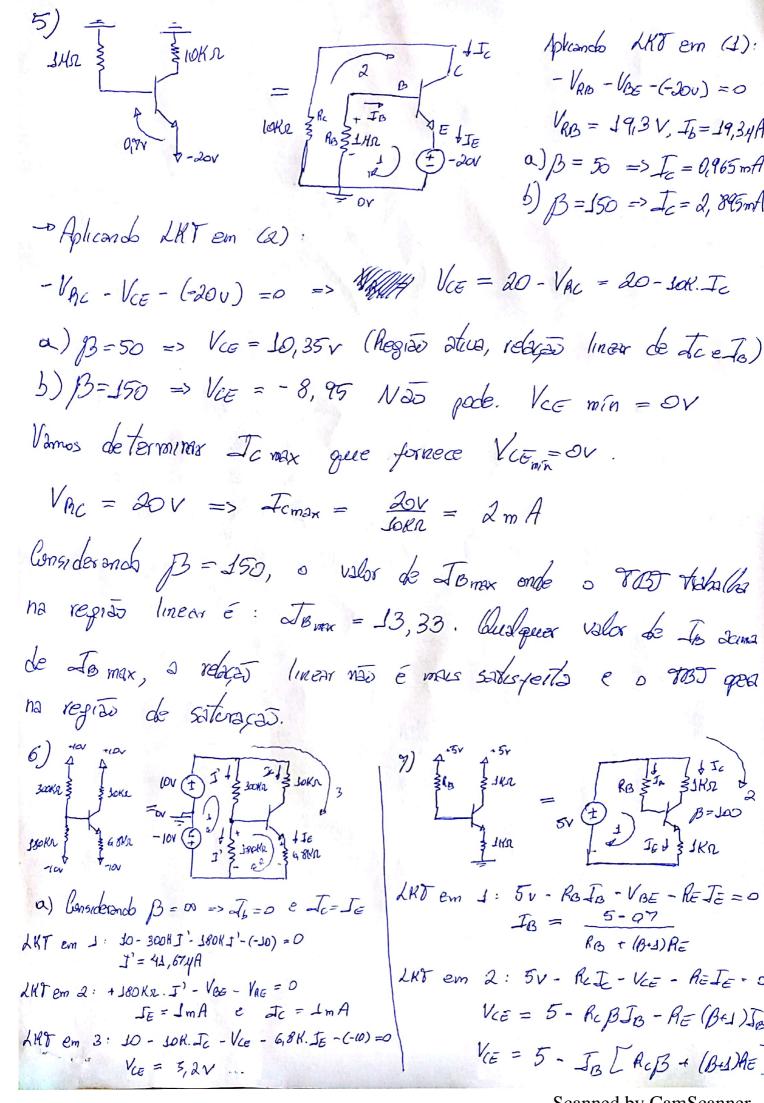
4)

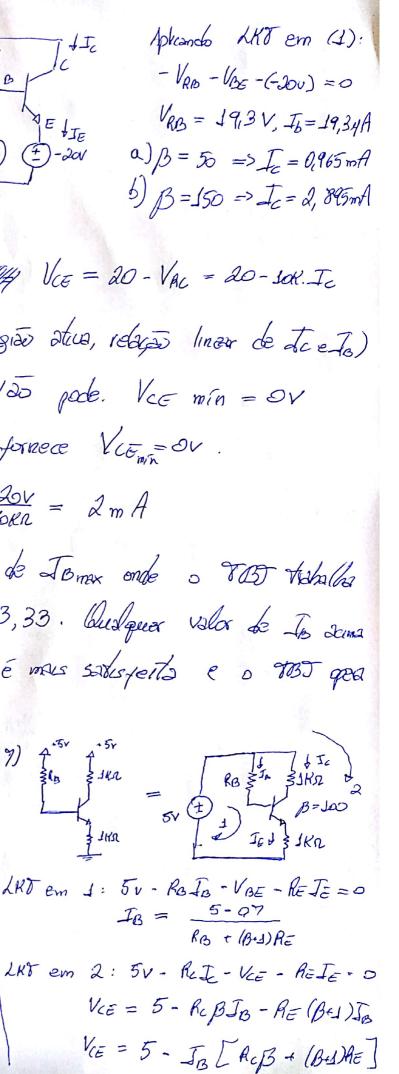
$$A + 30v$$
 $A + 30v$
 $A + 3$

Analisando a queda de densão no hesister Re:
$$V_{RE} = -8 - (-50) = 2v$$

$$IE = \frac{V_{RE}}{RE} = \frac{2v}{2RR} = ImA$$

$$Lo I_G = I_C = I_mA$$





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