

a)
$$<\sqrt{0.7} = 0.\sqrt{0}$$

 $0 = \frac{4.5}{12} = 0.375$

b)
$$L_{cntico} = ?$$
 $L_{cnt} = (1-0) \frac{RT}{Z}$.; $T = \frac{1}{5.10^3}$ $= (1-0.375) \frac{500 \times (5.10^3)}{Z}$ $= 0.03125 \text{ EHJ}$

C)
$$C \ge 3$$
 sabendo $L = n \cdot t$
 $(1-D) T^2 V_0$
 $8 \times L \times \Delta V_{P}$
 $= \frac{(1-0)375}{8 \times 0,03175 \times 2.10^3} \times 4.5$
 $= 0,000725 TFJ$

E)
$$\Delta i_{L} = \frac{\sqrt{i_{c}(1-D)_{x}DT}}{L} = \frac{\sqrt{i_{c}(1-D)_{T}}}{L}$$

$$= 0,018 \quad 2.47$$

$$= 4,5(1-0,375).(5.163)$$

$$0,03125$$