e 14 15V tados $= 0.12 \text{ Vp} = 239.6 \text{ 0}^{\circ}$ 1 NV GS 15 = 535 and TINV 15 537.42X2115 0) 239.6 Np = 239.6

Anto-segmential-commutated commutation and 03,8

Ig = coust ets say this 19, - - IdR

21c 20c + arc duc +

$$2LC \frac{d^{2}V_{c}}{dt^{2}} + 2RC \frac{dW_{c}}{dt} + V_{c} = R^{\frac{1}{2}}d$$

$$2LC = I_{d} - I_{L}$$

$$2dW_{c} = I_{d} - I_{L}$$

$$3dW_{c} = I_{d} + I_{L}$$

$$4D = I_{d} + I_{d}$$

$$4D = I_{d}$$

$$A = \frac{1}{2} \left[\frac{1}{2} - \frac{R^{2}}{L} \right]$$

$$0.3/0.4 \rightarrow \text{ord} \text{ ord} \text$$

Durant t 2 internal -628t $V_{C}(t) = 258 + e$ ((3475 Ruhat - 516 630t) $U_{c}(t_{2}) = V_{c0}$ LL(tz) = Id 1 (t) = Ia - 20 MC (L(t) = Ia -20×10×e 534750 cos 20 t +516D DEMNT +3475X628 JENDT - 516 X628 COSDT SJEL (tz) = Id At what value of tz, le(tz) = Id (L(t)= I2-20XIDXe 628t 558765 COS Qt (+10956 Sinult) ωtz= (20 =) 25 t2 = 21 = 12302/h&L + 45 20 msec 10 msec 123.2M

$$v_{c}(t_{2}) = 258 + e^{-628 \times 123 \times 10^{-6}}$$

$$= 34750 \ln 128 - 516 \cos 120^{\circ}$$

$$= 358 + e^{-4256 \times 3268}$$

$$= 3286 V = V_{co}$$

