$i = 0.01 \cos 377t / v = 50i^{3} \text{ res } v \text{ bo is constant}$ $v = 50 \times 10^{6} \cos 377t , \cos \theta = \cos \theta \cos \theta = \cos \theta \times \frac{1}{2}(1 + \cos 2\theta)$ $= \frac{1}{2} \cos \theta + \frac{1}{4} \cos \theta + \frac{1}{4} \cos \theta + \frac{3}{4} \cos \theta + \frac{3}{4} \cos \theta + \frac{1}{4} \cos \theta + \frac{3}{4} \cos$

 $e_{s} = 0.5 \frac{di}{dt} + v_{c}, i = 0.5 \frac{d}{dt}v_{c} \rightarrow e_{s} = 0.25 \frac{dv_{c}}{dt} + v_{c}$ $\rightarrow 0.25 \frac{di}{dt} + v_{c}, i = 0.5 \frac{d}{dt}v_{c} \rightarrow e_{s} = 0.25 \frac{dv_{c}}{dt} + v_{c}$ $\rightarrow 0.25 \frac{di}{dt} + v_{c} = -c = 0.5 \frac{dv_{c}}{dt}v_{c} \rightarrow e_{s} = 0.25 \frac{dv_{c}}{dt}v_{c} + v_{c} = -c = 0.25 \frac{dv_{c}}{dt}v_{c} + v_{c} = -c = 0.25 \frac{dv_{c}}{dt}v_{c} + v_{c} = -c = 0.25 \frac{dv_{c}}{dt}v_{c} + v_{c} = 0.25 \frac{dv_{c}}{dt$

 $V_{c} = Cos2t + \frac{5}{2} sin2t - t Cos2t$ $E = V_{R_{1}} + V_{L} + V_{c} , I = \frac{1}{2} V_{c} + \frac{1}{2} x + \frac{1}{4} V_{c} = \frac{1}{2} V_{c} (1+j)$

→ E = 2I + j2×I + Vc = Vc[1+j+j(1+j)+1] = Vc(1+2j) = 2,23[63,4]

 $\rightarrow e = 2,23 \cos(2t + 63,4^{\circ})$

م دوکرم فیزوی

a) $Z = Z_1 + \frac{1}{3\omega^2 + \frac{1$

$$C) \begin{bmatrix} 1+j\omega+\frac{1}{j2\omega} & -j\frac{1}{j2\omega} & |V_1| & |V_2| & |V_3| &$$

- V, = 0,19 /-112,6° , V2 = 0,16 /-120,7°