Tells into service weekens to the trust experse Ester recognize of twee , L' + I contient - President con in. It is originally  $v = v_m, \sin(\omega t + 0) = v, \frac{d\phi_t}{dt} + r, z_{\phi}$ iq = in di co wice of what bound in L = N, Re in in in it,  $\Rightarrow V_{m_1} \lim_{t \to \infty} (\omega t + \theta) = N_1 \frac{dq_1}{dt} + \frac{N_1 r_1}{L_1} q_2$  $\frac{dq_t}{dt} + \frac{r_t}{L_t} q_t = \frac{v_{m_t}}{N_t} \lim_{t \to \infty} (\omega t + 0)$  $\frac{d\varphi_t}{dt} + \frac{r_1}{L_1} q_t = 0 \rightarrow (p + \frac{r_1}{L_1}) q_t = 0$ of Pt= C e عواستعفى P = A Sin (wt + 4) Um lin (wt+0) = M.A.W an(wt+p) + Wir A line(w+p) Um, Sin (wteb) = V Ni A2w2 + Min A2 Sin (wtrp + tg MAW)

$$v_{m_1} = v_1 A \sqrt{v_2 + \frac{v_2^2}{L_1^2}}$$

$$\rightarrow A = \frac{v_{mi}}{v_i \sqrt{\omega^2 + (\frac{r_i}{L_i})^2}}$$

$$\varphi = 0 - t \frac{1}{9} \frac{\omega L_1}{r_1}$$

$$\Rightarrow 69.00 - 10 \frac{v_{m_1}}{v_1 \sqrt{\omega^2 + (\frac{v_1}{L_1})^2}} \sin(\omega t + 0 - t g' \frac{\omega L_1}{v_1})$$

نه راس حواسد معادل

$$P_{t} = c e + \frac{v_{m1}}{v_{i} \sqrt{s}} \sin(\omega t + \theta - \tan \frac{\omega L_{i}}{v_{i}})$$

. In 19, 1° who whis : what is comboo

$$\pm P_r = C + \frac{v_{mi}}{v_i}$$
  $\frac{dv_{max}}{v_i}$ 

$$C = \pm P_r + cono \times \frac{v_{max}}{v_i}$$

$$P_{t} = (P_{m} c_{n} r_{12} \pm 0) e^{-r\chi_{t}} t$$

$$-q_{m} c_{n} (\omega t + r_{12})$$

$$L_{\omega} > n_{r} \Rightarrow e^{-\frac{r_{1}}{L_{1}}\frac{1}{2\omega}}$$