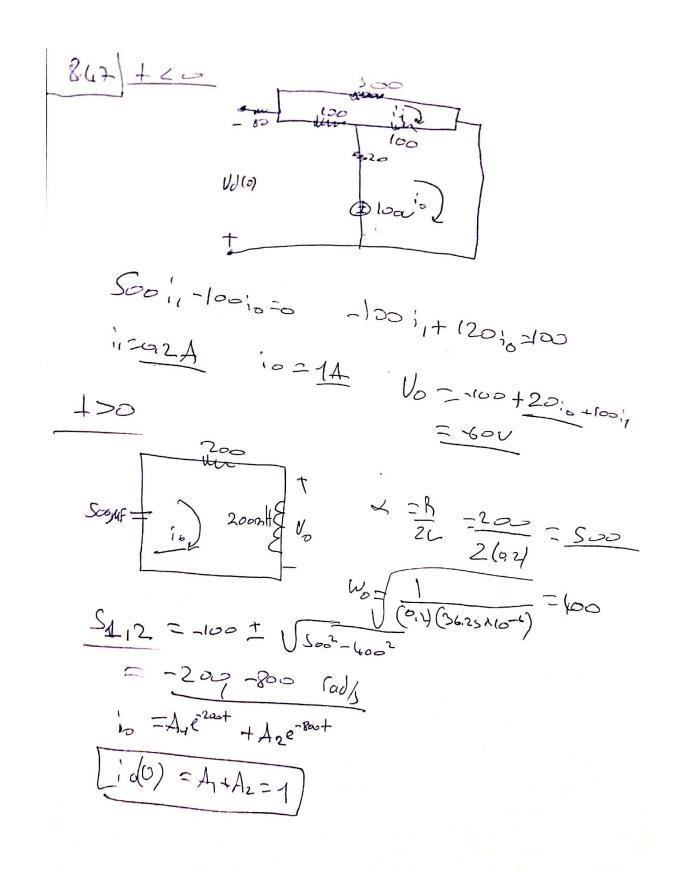
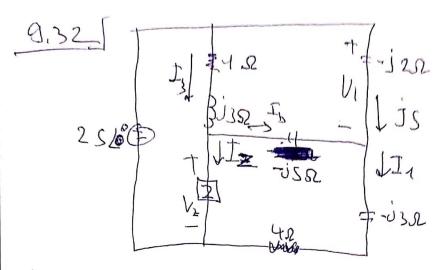
8.41 420 Vo=100V Io=SA x = 1  $2RC = 2(50)(25 \times 10^{-6}) = 400 \text{ rad/s}$   $w_0 = \sqrt{\frac{1}{160}} = \sqrt{\frac{1}{(160 \times 10^{-3})(25 \times 10^{-6})}} = 500$   $x^2 \text{ Vad} = 7 \text{ Wo} = 500 - 400 = 300$ 

$$V_{0} = \sqrt{\frac{1}{(2s_{x1}-3)}(62, s_{x1}-6)} = 800 (60)/s$$

$$= \frac{1}{2hc} = \frac{1}{2s(62, s_{x1}-6)} = \frac{1}{2s(62, s_{x1}-6)}$$



8.54 
$$\frac{1}{100}$$
  $\frac{1}{100}$   $\frac{1}{100}$ 



 $\begin{array}{l} U_{1} = \dot{J}S(-\dot{J}z) = ICU \\ -2SHO + (4\dot{J}) = 0 \\ = 1 \\ J_{1} = \frac{15}{4\dot{J}} = 24 + \dot{J}1.8 \\ J_{2} = -\dot{J}S = (24\dot{J}1.8) - \dot{J}S = 24\dot{J}1.8 \\ J_{2} = -\dot{J}S = (4\dot{J}1.8) \\ J_{3} = -\dot{J}S = (4\dot{J}1.8) \\ J_{4} = -\dot{J}S = (4\dot{J}1.8) \\ J_{5} = -1 - \dot{J}SU - 2S + (4\dot{J}1.8) \\ J_$ 

(912/0°) 250 =300° U 250-1600+1180=250-125052 30/0° -60-160mA (250-1250) | 500 = 200 -d100 D (200-01000) (0,06 20,06) [18-36U]

9.46 OPEN LINCUTT!

-d2=Iq -40[a+2d[a-94-50,2=0

Ia = 20 (arior) =0,1 +J0.1A

VOC = 40] q + 016(0,4+00,2) =0,8 + 510,40

Short circut

104 - 1 Iq+(10( Iq-Ix)+20(Iq-0,4-)a)

(04+042)

(04-04-00)

(04-04-00)

(04-04-00)

Isc = 013 +00s+

Z+h=V+h= -08+110.4 = 16+1/202

$$\begin{array}{l}
10 26 = (1 \text{ J}_{1}) I_{1} - I_{2} + \text{J}_{3} \\
-3 26 = I_{1} + (1 + \text{J}_{1}) I_{2} - \text{J}_{1} I_{3} \\
1 = \text{J}_{1} I_{1} - \text{J}_{1} I_{2} + I_{3} \\
I_{1} = \text{II} + \text{J}_{10} A_{1} I_{2} = \text{II} + \text{J}_{5} A_{1} I_{3} = 6A
\end{array}$$

$$\frac{I_{\alpha}=I_{3}-SA=4A}{I_{b}=I_{1}-I_{3}=S+i_{1}SA}$$

$$I_{c}=I_{2}-I_{3}=S+i_{2}SA$$

$$I_{d}=I_{1}-I_{2}=i_{3}SA$$