Chapter 30 7.15.17,40,47,53,63,69. 7. &= - dos (a) Bus) = 10 M = 10 NITA (b) =-A db = = = honir xu y dy = v cc) counterclockwise sense 1) $24=\frac{1}{dt}$. $7ct)=\frac{2}{R}(1-e^{-\frac{t}{TL}})$ $7c=\frac{L}{R}$ 15. 4=-1 dt. * = - [n(1-\frac{\fin}}}}{\frac{\fra (1) UB= ZLift) = JUDMI. 17. di = 21 A/5. MOS= E=W. DO NA/S. 2 M= 119 mH (b) N=1.19mH 142/2 M= N2/21 - Py= 1.6/mWb 40 (a) B= moi 9B= SADA = (706) moi adr \$= 10 in roll) " \$ = 2/nWb (b). & rost)=0.5b+V& refilt)=1.5btvt 2=-40rav /n 1.0btvt = 6.0)nV : i= = 15MA

47.
$$d = 12cm$$

$$\frac{dR}{dt} = -6.5 \times 10^{3} T/s$$

$$\int E \cdot ds = E \cdot L = E \cdot x t t^{2} - t t^{3} \cdot \frac{OlB}{dt}.$$

$$\therefore E = 137 \text{ pw/m}$$

$$(b) \quad f = (0.3 \text{ cmm})$$

$$E \cdot 2Rt = -t t^{2} \cdot \frac{OlB}{dt}$$

$$\therefore E = 114 \text{ pw/m}.$$

$$t = 114 \text{ pw/m}.$$

$$t = -1.57/s$$

$$\therefore E = -2 \text{ m}^{2} \times -12 \text{ T/s} = 7.5 \text{ rv}.$$

$$\text{Spect} = 14150$$

$$48 = 16 + \int 0 + (5 - 8).0 \text{ mH}$$

$$48 = 16 + \int 0 + (5 - 8).0 \text{ mH}$$

$$69. \quad N = (20) \quad (3) \quad (4) \quad (4$$

69.
$$N=100$$
 $\Sigma=-N\frac{d}{dt}\int_{\mathcal{B}}dA$

$$\Sigma=NBA \text{ as in }\omega t$$
).
$$\int_{0}^{1}(t)=\omega \qquad \Sigma=NBA \text{ and }\sin(xxft)$$

$$\sum_{may}=2\pi \int_{0}^{1}NBab=8.63 \times 10^{3}V$$