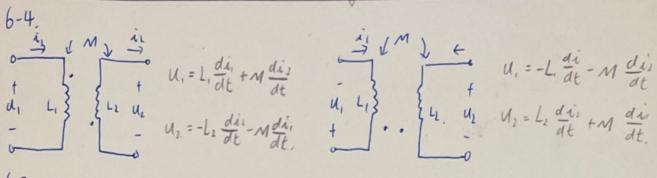
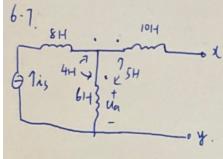
(科目:) 清华大学数学作业纸



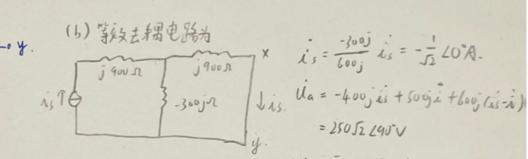
班级:

姓名:

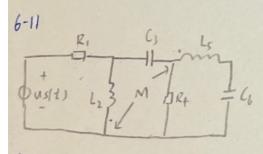




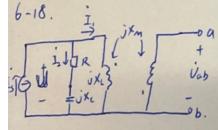
1 (a) Va = (j600- j400) Is = 200 52 190 V : Ua = 400 sin (100 t +900) V.



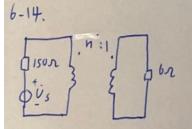
- Ua = 500 sin(100t+90°) V.



 $\begin{cases} (R, +jwl_2)\dot{I}, -jwl_3\dot{I}_2 - jwM\dot{I}_3 = \dot{U}_3 \\ -jwl_1\dot{I}_1 + (jwl_2 + \frac{1}{jwC_3} + R_4)\dot{I}_2 + (jwM - R_4)\dot{I}_3 = 0. \end{cases}$ $= -R_4\dot{I}_1 + (R_1 + jwl_3 + \frac{1}{jwC_4})\dot{I}_3 + jwM(\dot{I}_2 - \dot{I}_1) = 0.$



Uac = Uab - I, jxc = 7.212-33.7 V.



Zeg = 6n2 1 = Us = 0.167W.