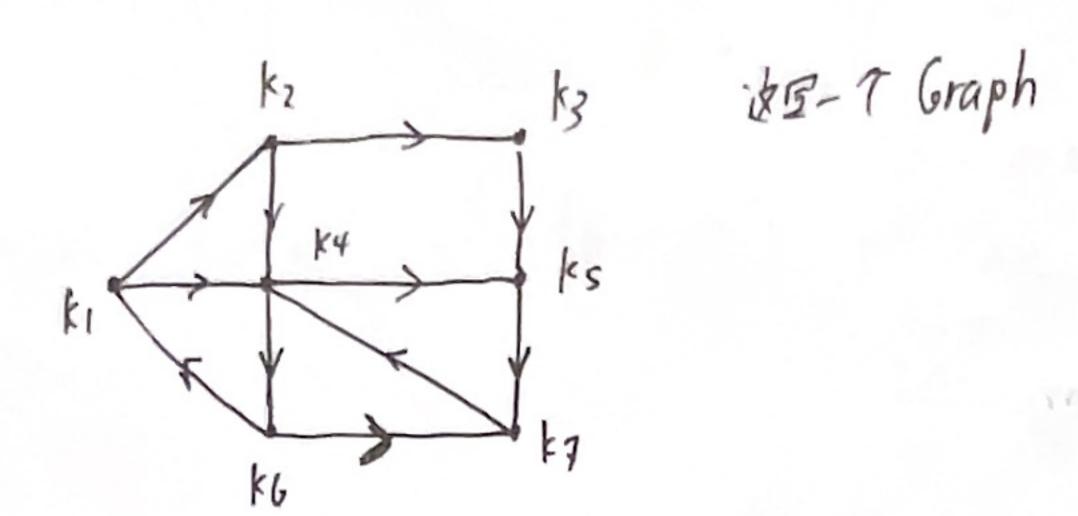
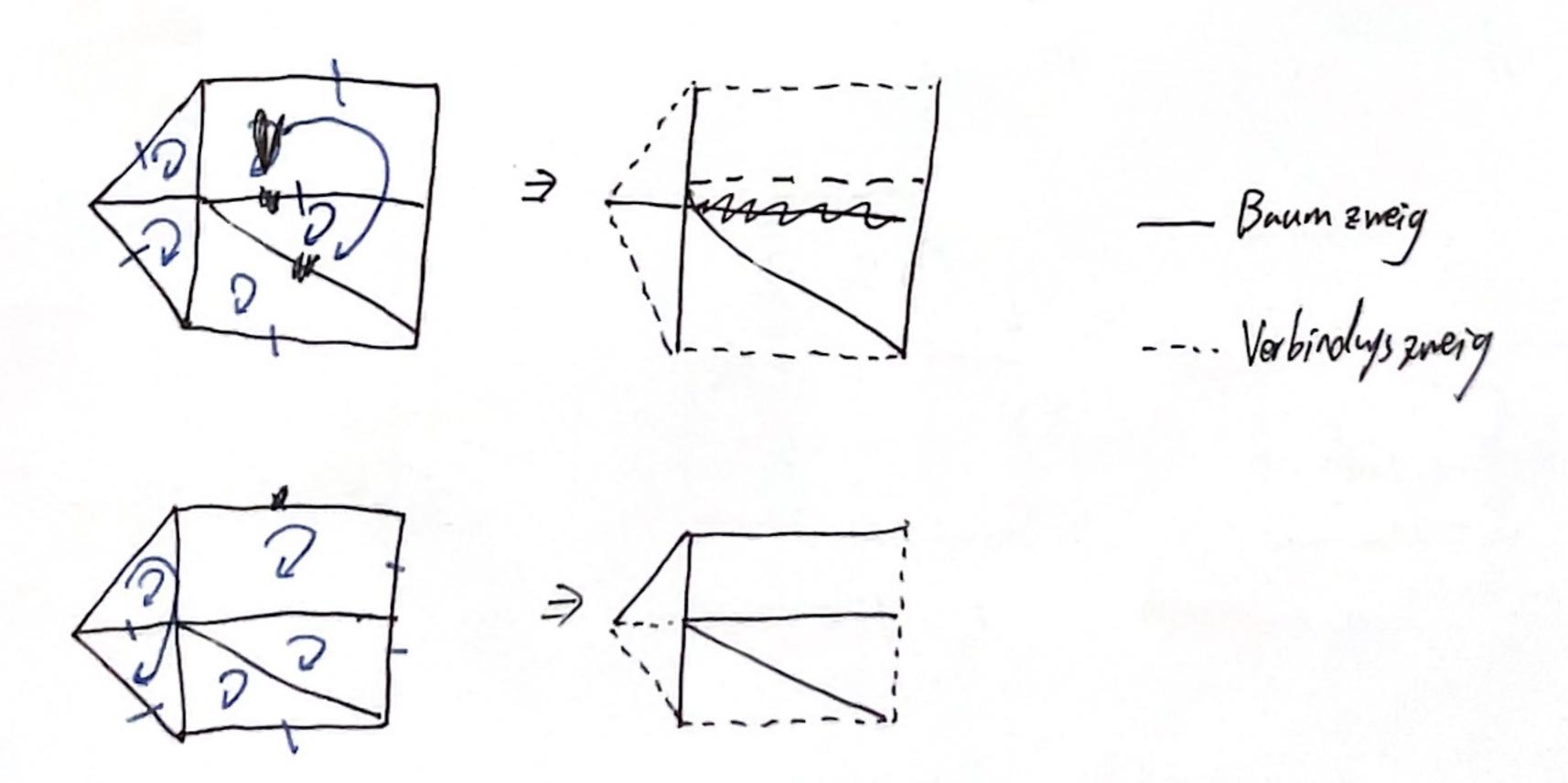
Autgabe 2



a. J. Anzahl der Knoten k & der Eweige 2

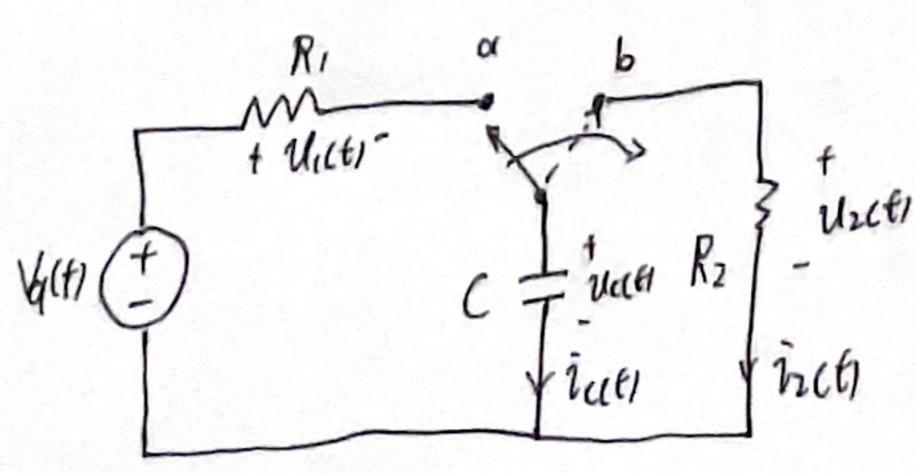
linear unabhängige Moxhongleichya & Knotzgleichyen 67 #2= m = 2-1+1=11-9+1=5 p=k-1=6

C. 选择 再个 Böume 并图出多自的 Fundamentalmasche



Autgabe 3

第五一个 Netenerkmodell,由新门inear, seitinvariant 的电阻, R >0, R,>1, - 7 liear, zeitinvariant 电管 C > 0, -7 fest Spannunggeelle Ug(t) = Vo = const 经成本 当t=0日t, 开本 从 a つb 作者な tco のt, Netowerk eingeschwungen, Vclo)=Vcco)=Vcco+)



eingeschwyen, $i_{ctl} = i_{c(t)} = C \frac{du_{c(t)}}{dt} = 0$, da $u_{c(t)} = const$ $\Rightarrow 2 || Leerland \Rightarrow u_{c(t)} = V_0$

b. # Vatt , t > 0

escent share 2 Fear Roll of Colors

$$\int_{\mathcal{U}(0)}^{\mathcal{U}(t)} \frac{1}{\mathcal{U}(t)} d\mathcal{U}(t) = -\frac{1}{R_{1}C} \int_{0}^{t} dt \iff |n| \frac{\mathcal{U}(t)}{\mathcal{U}(0)}| = -\frac{1}{R_{1}C} t$$

$$= u(e) e^{-\frac{1}{R_{1}c}t} = v_{0}e^{-\frac{1}{R_{1}c}t}$$