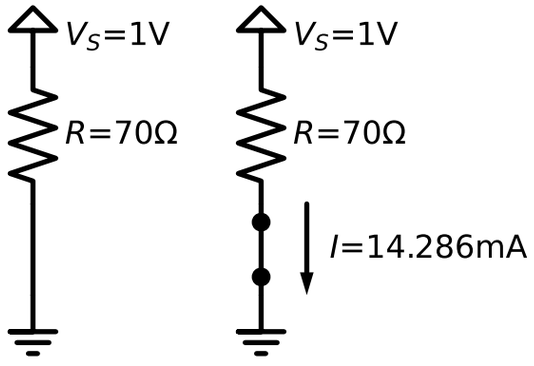
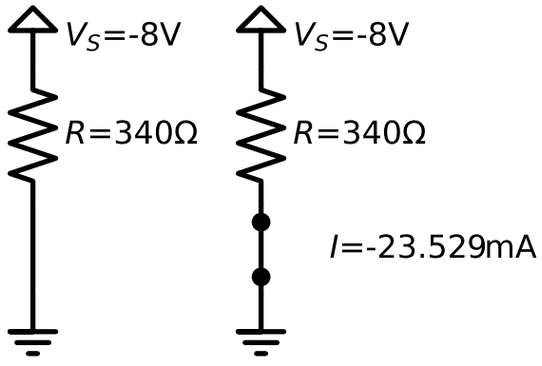
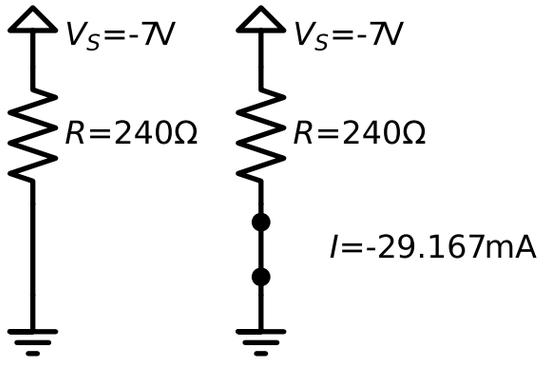


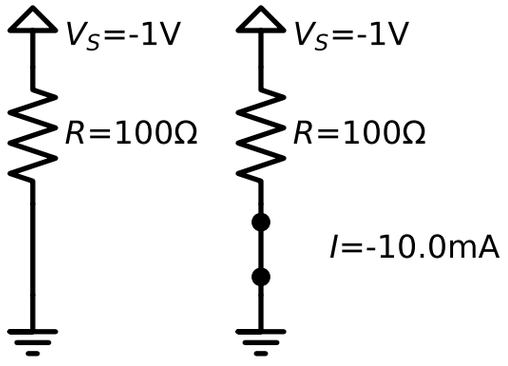
(a)



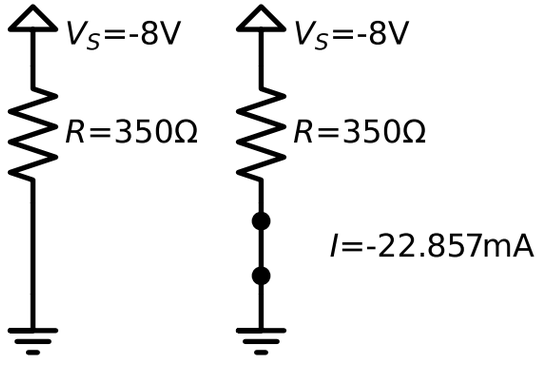
(b)



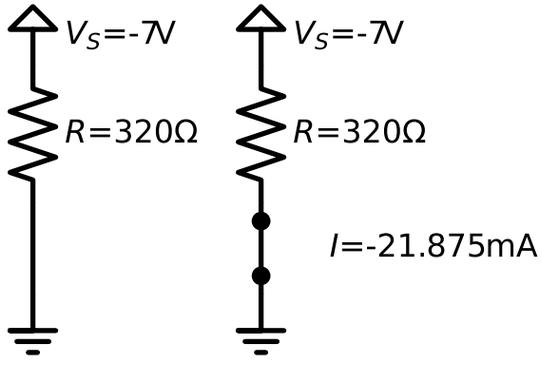
(c)



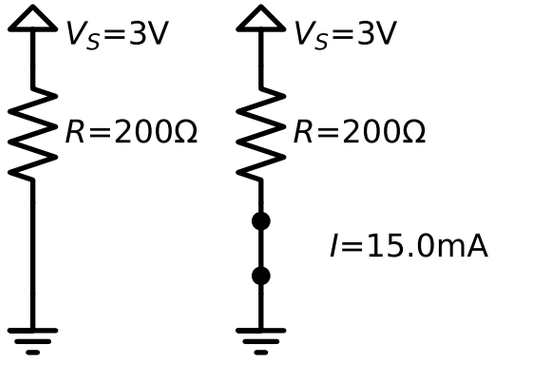
(d)



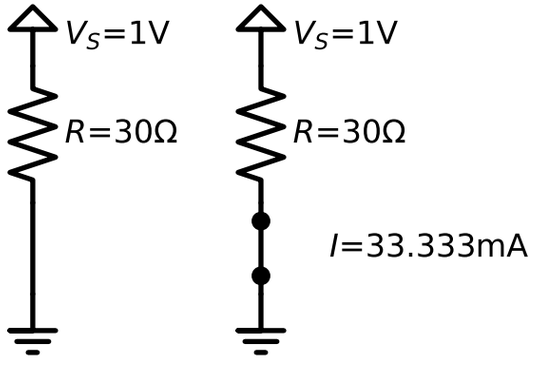
(e)



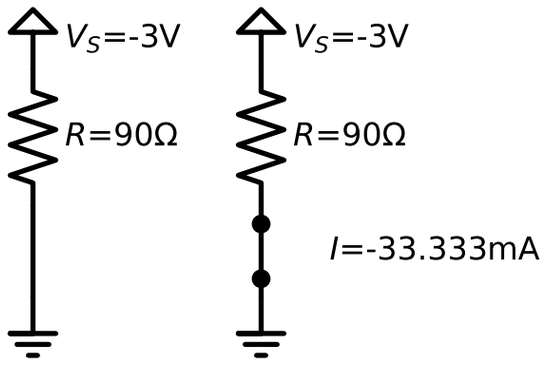
(f)



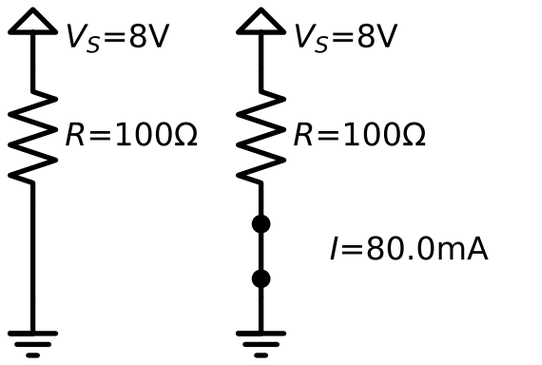
(g)



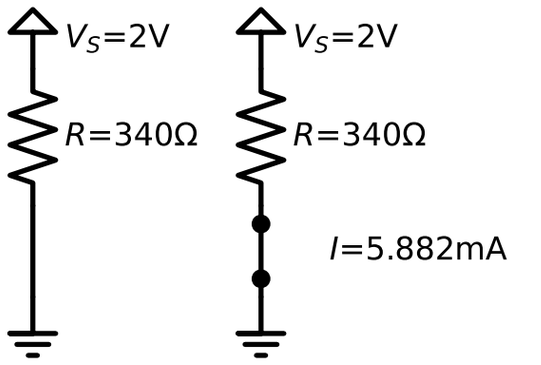
(h)



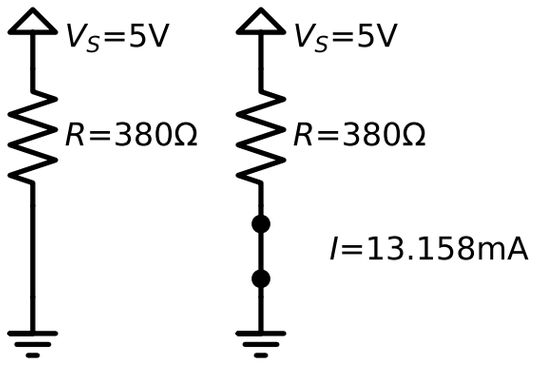
(i)



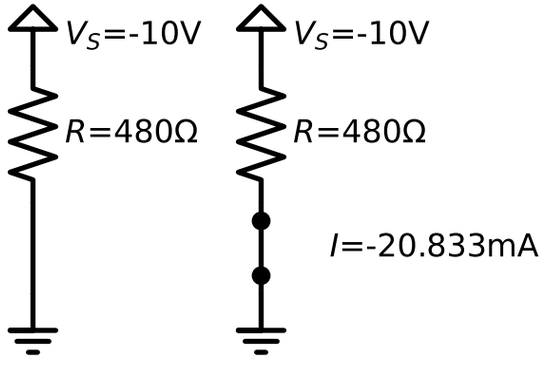
(j)



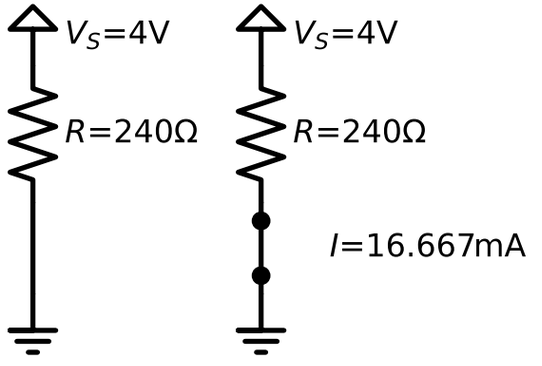
(k)



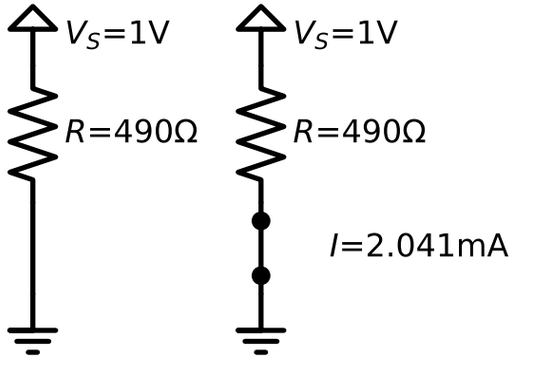
(l)



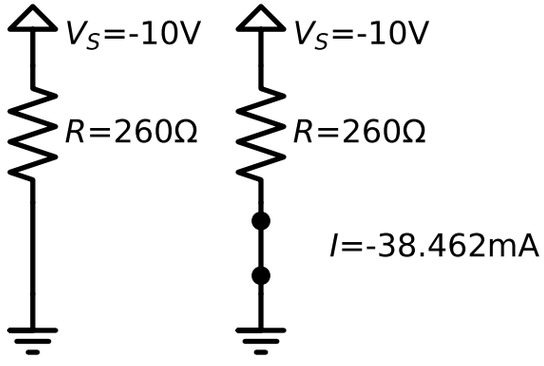
(m)



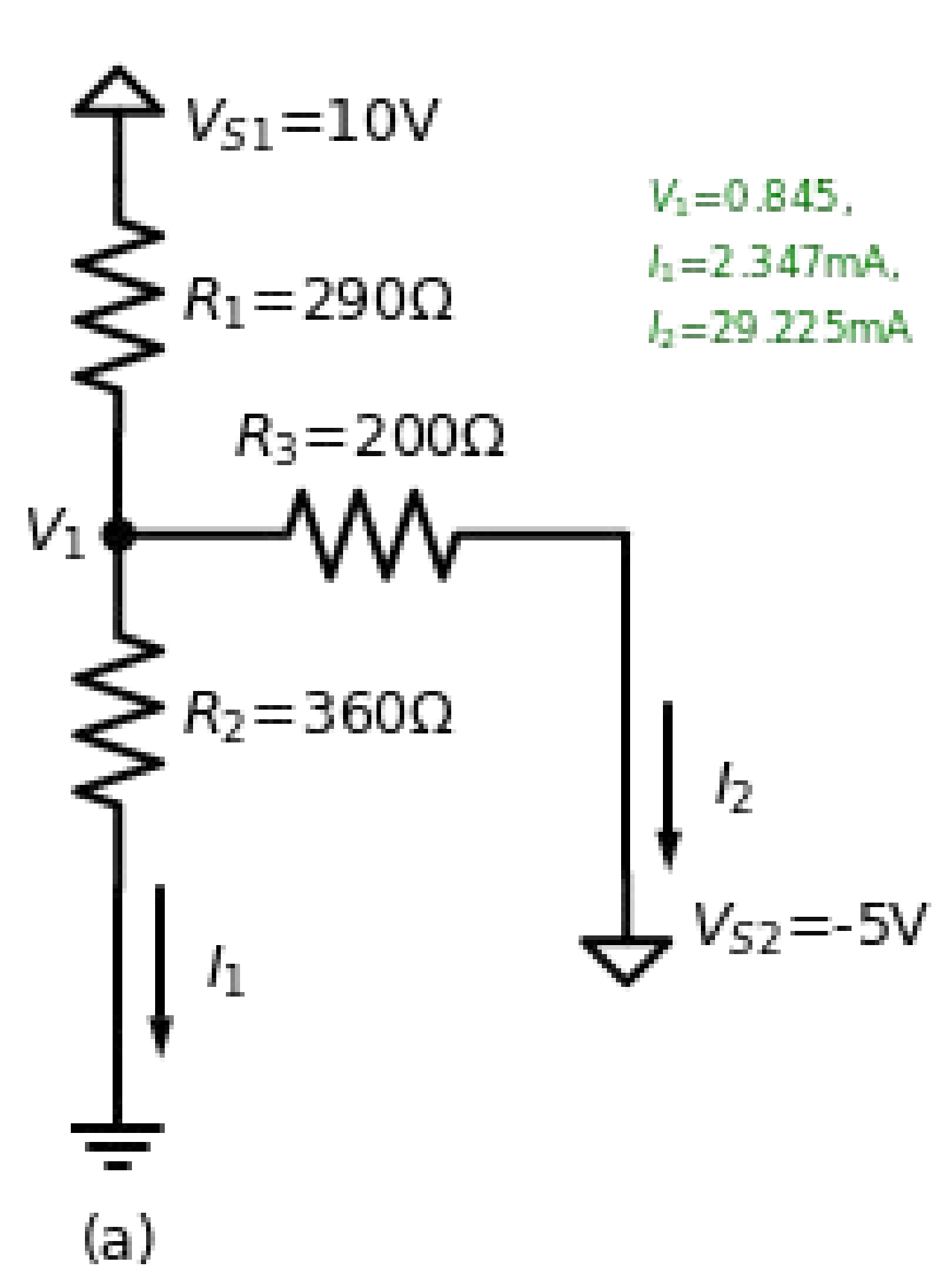
(n)

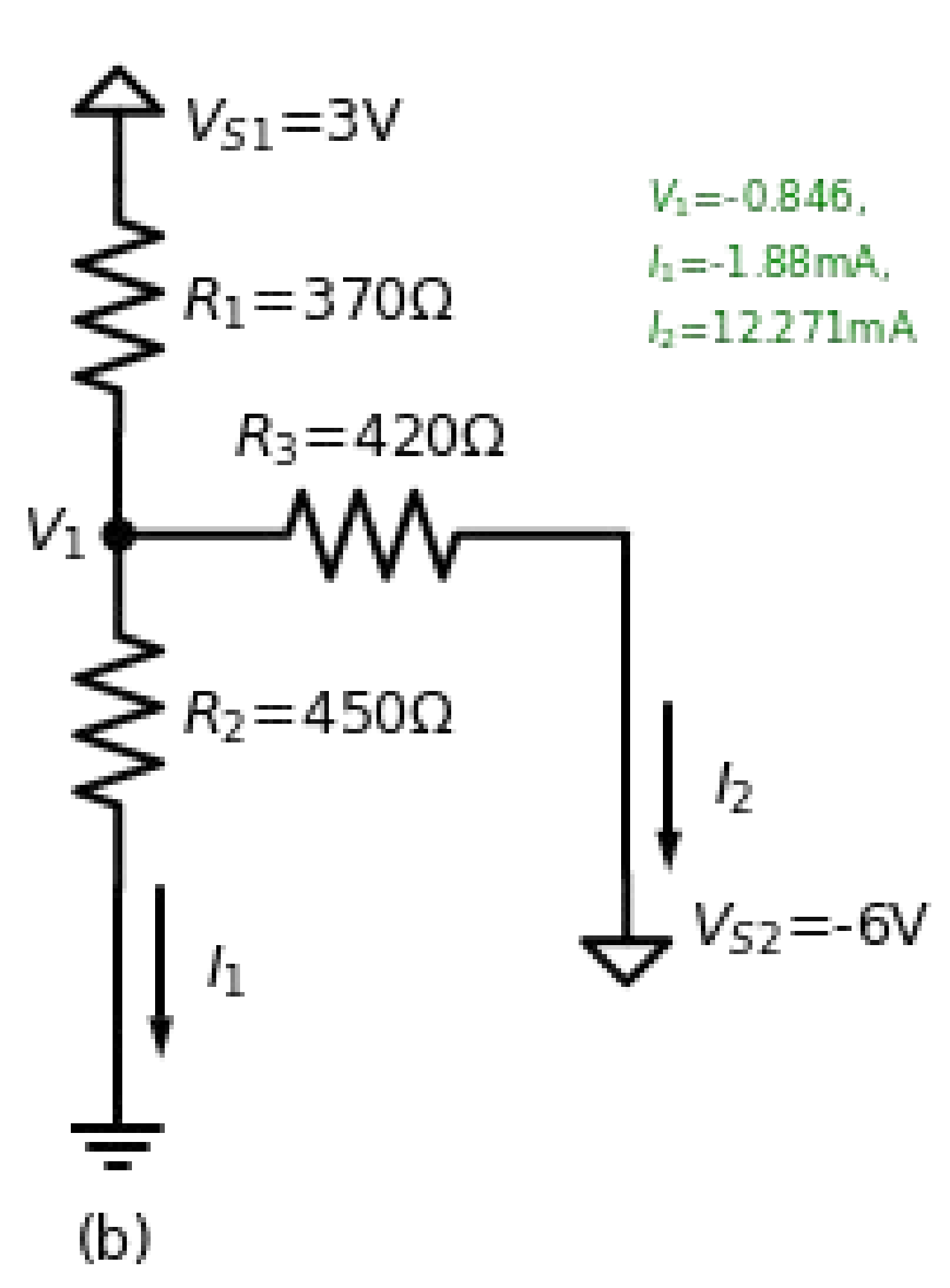


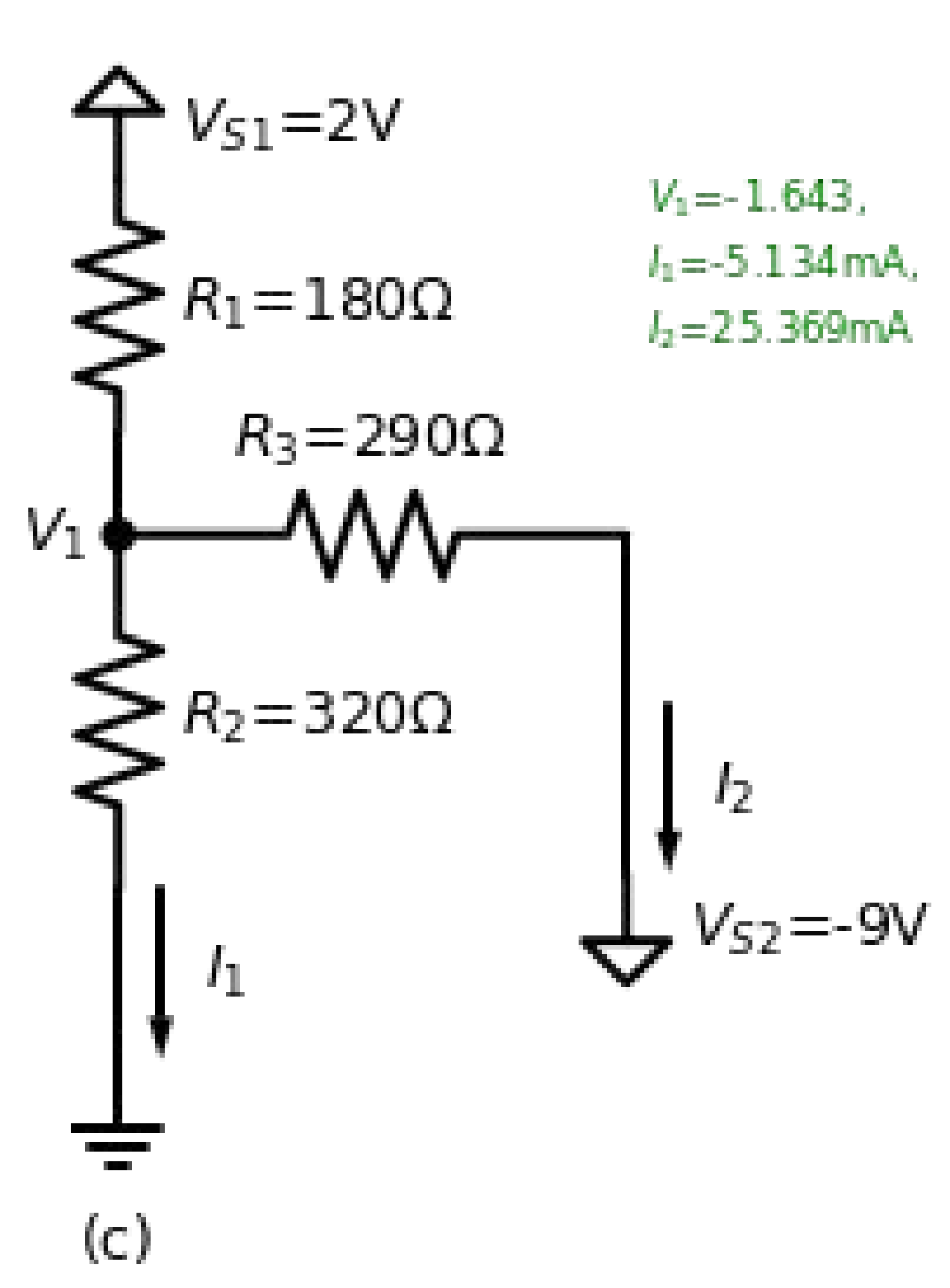
(o)



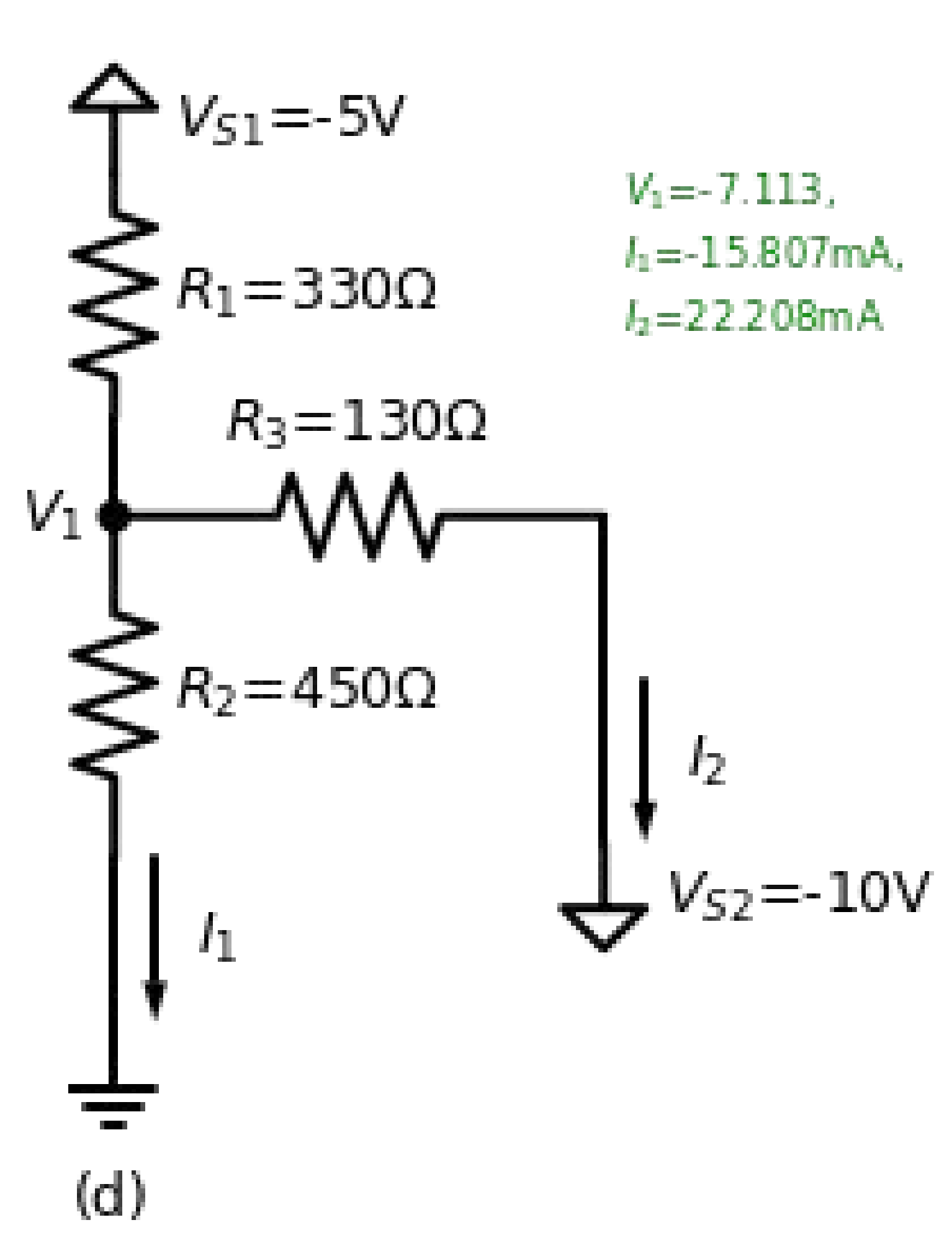
(p)

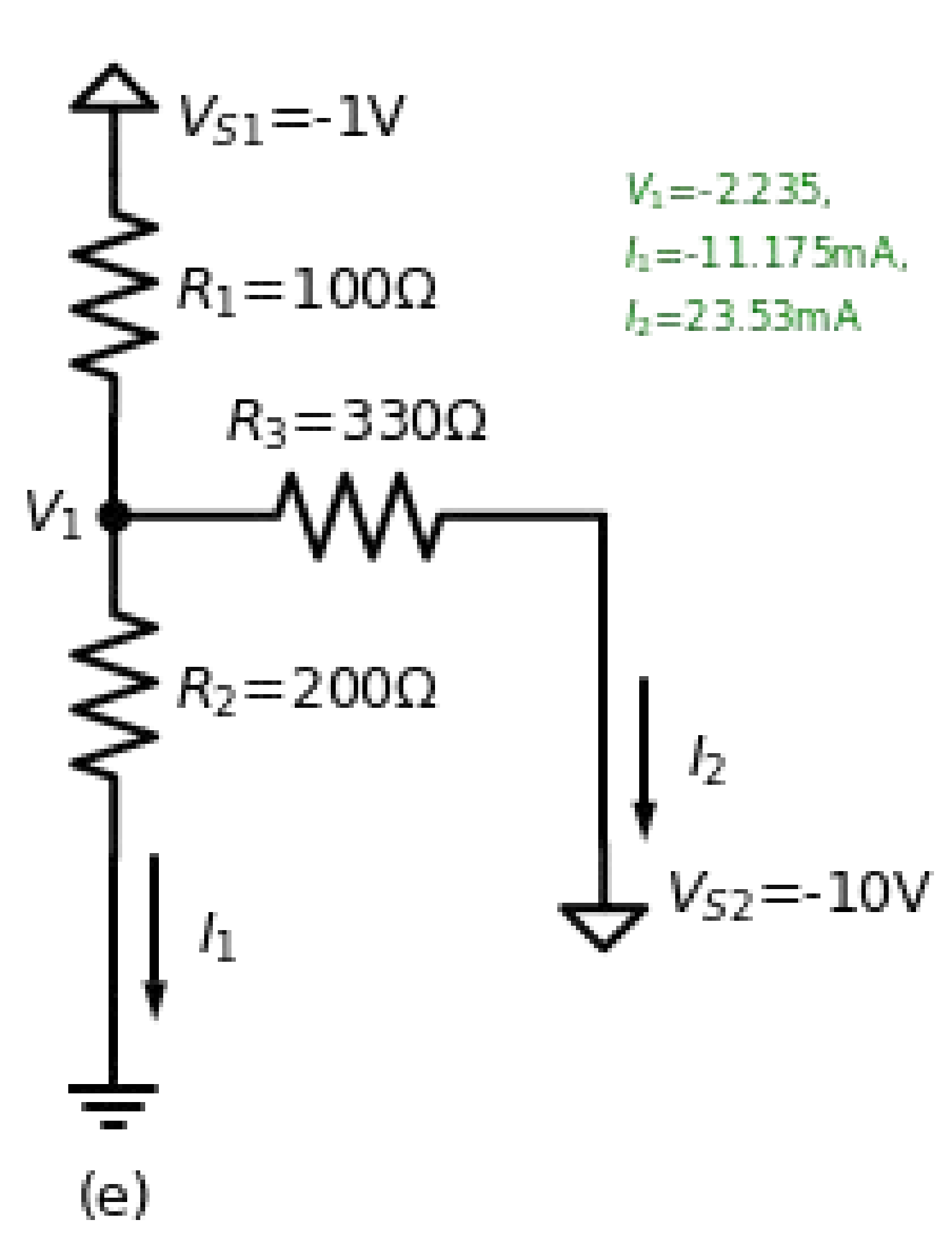

$V_{S1}=10V$
$R_1=290\Omega$
$R_3=200\Omega$
V_1
$R_2=360\Omega$
I_2
$V_{S2}=-5V$
I_1
(a)
$V_1=0.845,$
$I_1=2.347mA,$
$I_2=29.225mA$

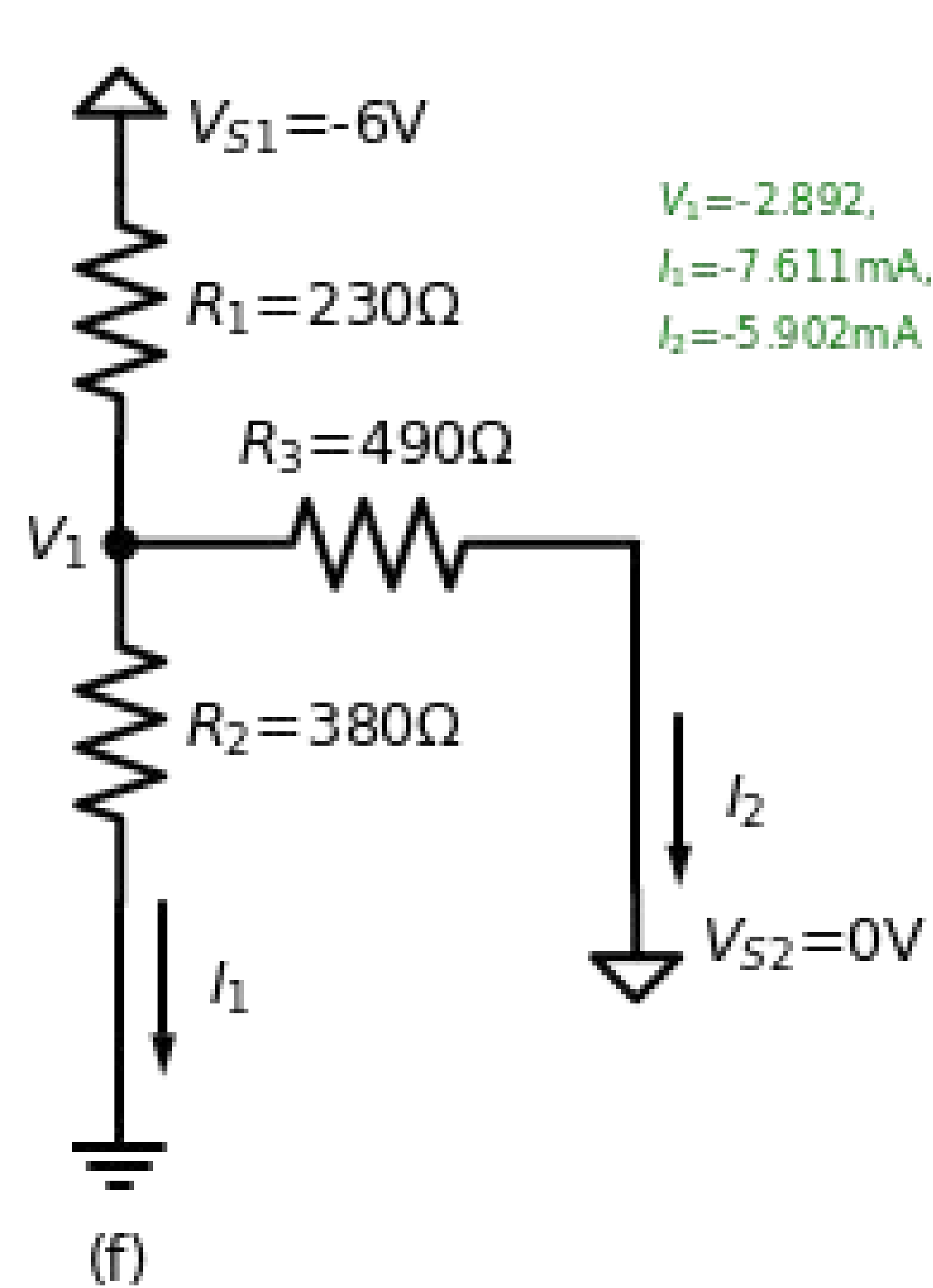

V_{S1}=3V
R_1=370Ω
R_3=420Ω
V_1
R_2=450Ω
I_2
V_{S2}=-6V
I_1
(b)
V_1=-0.846,
I_1=-1.88mA,
I_2=12.271mA


$V_{S1}=2V$
$R_1=180\Omega$
$R_3=290\Omega$
V_1
$R_2=320\Omega$
I_2
$V_{S2}=-9V$
I_1
$V_1=-1.643,$
$I_1=-5.134mA,$
$I_2=25.369mA$

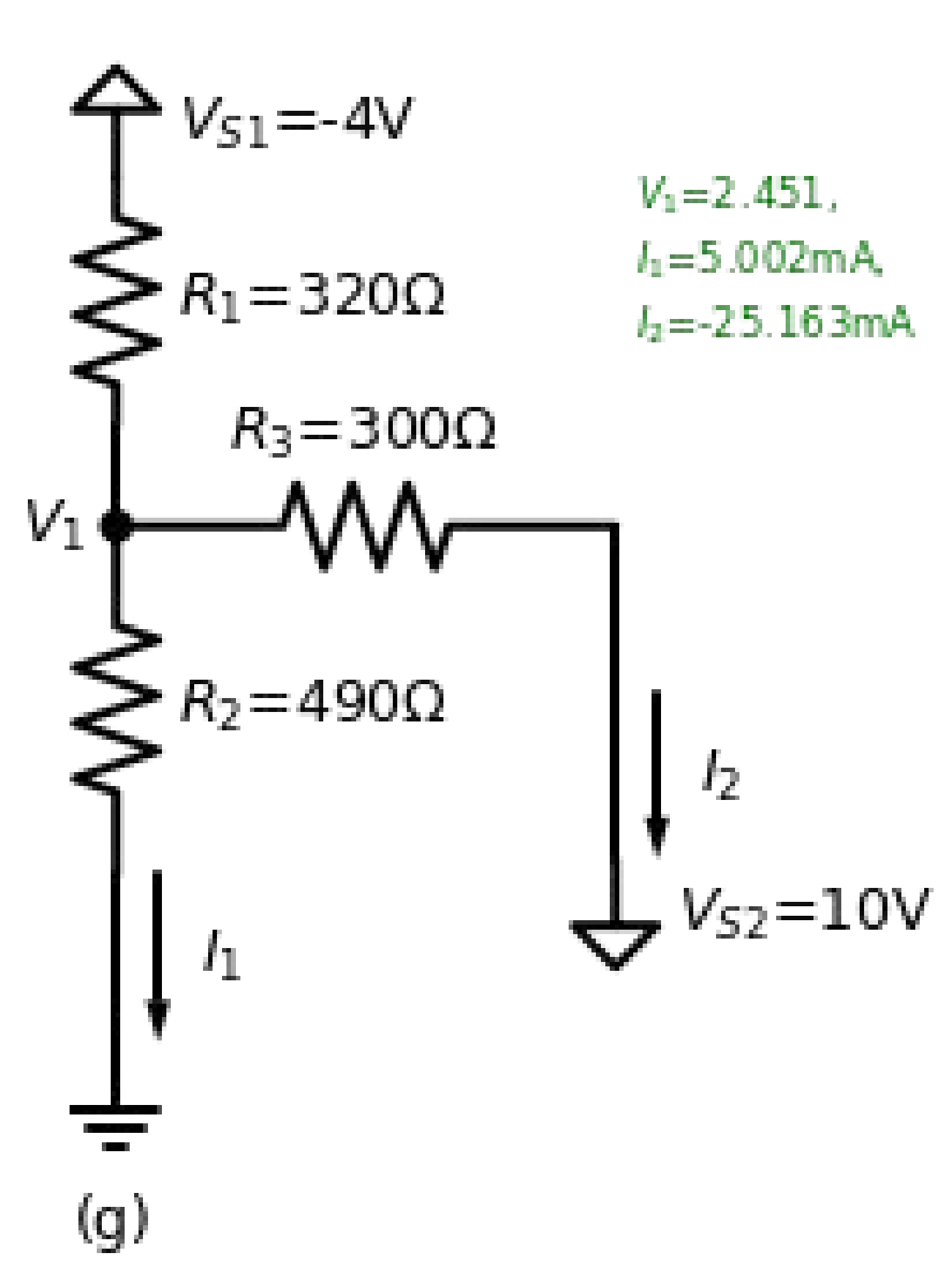
(c)


V_{S1}=-5V
R_1=330Ω
R_3=130Ω
V_1
R_2=450Ω
I_2
V_{S2}=-10V
I_1
(d)
V_1=-7.113,
I_1=-15.807mA,
I_2=22.208mA

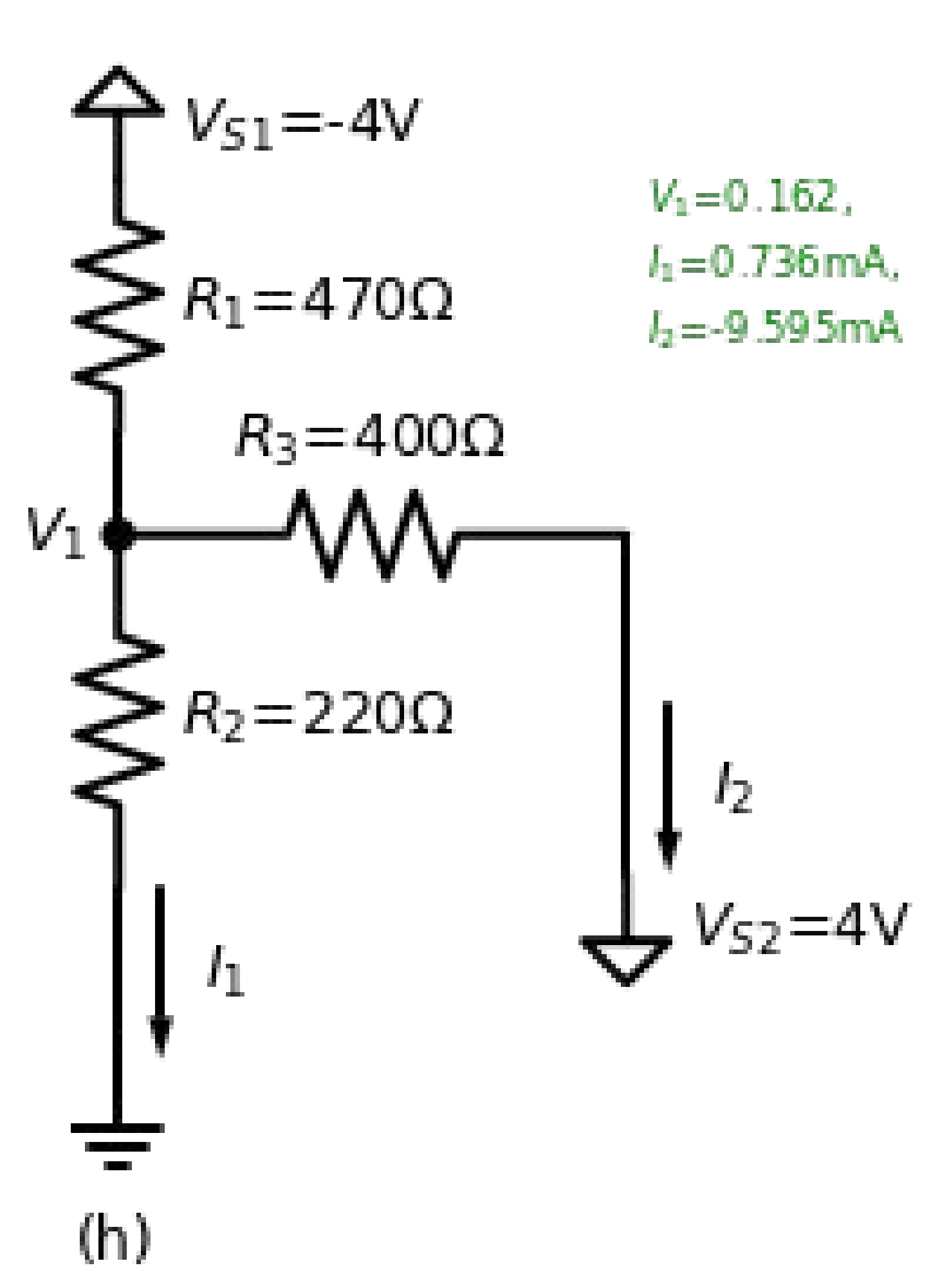

V_{S1}=-1V
R_1=100Ω
R_3=330Ω
V_1
R_2=200Ω
I_2
V_{S2}=-10V
I_1
(e)
V_1=-2.235,
I_1=-11.175mA,
I_2=23.53mA


V_{S1}=-6V
R_1=230Ω
R_3=490Ω
V_1
R_2=380Ω
I_2
V_{S2}=0V
I_1
V_1=-2.892,
I_1=-7.611mA,
I_2=-5.902mA

(f)


V_{S1}=-4V
R_1=320Ω
R_3=300Ω
V_1
R_2=490Ω
I_2
V_{S2}=10V
I_1
V_1=2.451,
I_1=5.002mA,
I_2=-25.163mA

(g)


V_{S1}=-4V
R_1=470Ω
R_3=400Ω
V_1
R_2=220Ω
I_2
V_{S2}=4V
I_1
V_1=0.162,
I_1=0.736mA,
I_2=-9.595mA

(h)