

a) Se dau:  $R_1=R_5=R_{21}=2\Omega$ ,  $R_2=1\Omega$ ,  $R_3=4\Omega$ ,  $J_4=4A$ ,  $E_1=12V$ ,  $E_3=4V$ ,  $E_2=R_{21}*I_1$

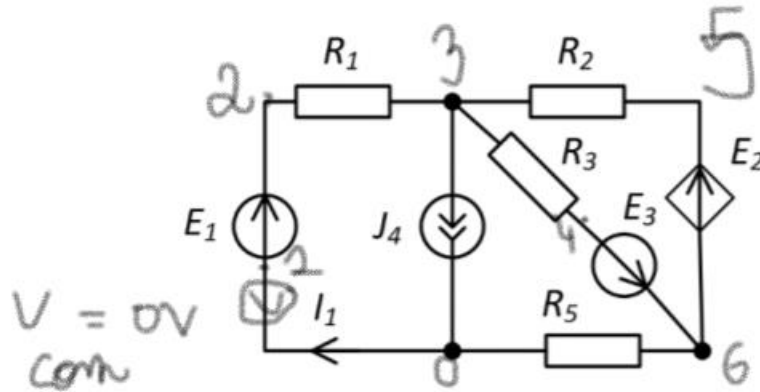


Fig. 5. Exercițiul a

```
Circuit cu STCC
R1 2 3 2
R2 3 5 1
R3 3 4 4
R5 6 0 2
V1 2 1 12
V3 6 4 4
I4 3 0 4
Vcom 0 1 0
H2 5 6 Vcom 2
.DC I4 4 4 1
.PRINT DC I(R1) I(R2) I(R3) I(R5) V(I4)
.END
```

```
R1 2 3 2
R2 3 5 1
R3 3 4 4
R5 6 0 2
V1 2 1 12
V3 6 4 4
I4 3 0 4
Vcom 0 1 0
H2 5 6 Vcom 2
.DC I4 4 4 1
.PRINT DC I(R1) I(R2) I(R3) I(R5) V(I4)
.END
```

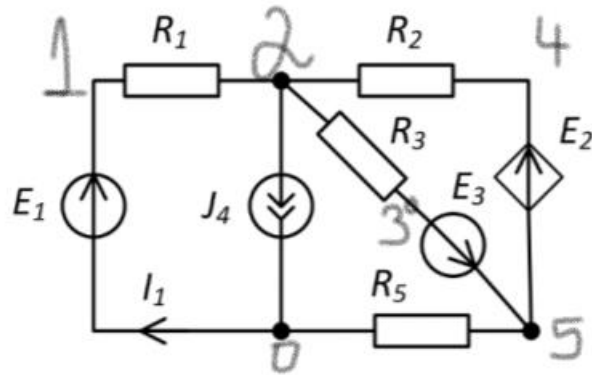
\*\*\*\* 04/01/21 13:33:02 \*\*\*\*\* Evaluation PSpice (Nov 1999) \*\*\*\*\*

Circuit cu STCC

\*\*\*\* DC TRANSFER CURVES TEMPERATURE = 27.000 DEG C

\*\*\*\*\*

I4	I(R1)	I(R2)	I(R3)	I(R5)	V(I4)
4.000E+00	3.750E+00	-2.500E+00	2.250E+00	-2.500E-01	4.500E+00



Circuit cu STCC

```
R1 1 2 2
R2 2 4 1
R3 2 3 4
R5 5 0 2
V1 1 0 12
V3 5 3 4
I4 2 0 4
H2 4 5 V1 -2
.DC V1 12 12 1
.PRINT DC I(R1) I(R2) I(R3) I(R5) V(I4)
.END
```

```
R1 1 2 2
R2 2 4 1
R3 2 3 4
R5 5 0 2
V1 1 0 12
V3 5 3 4
I4 2 0 4
H2 4 5 V1 -2
.DC V1 12 12 1
.PRINT DC I(R1) I(R2) I(R3) I(R5) V(I4)
.END
```

\*\*\*\* 04/01/21 13:42:47 \*\*\*\*\* Evaluation PSpice (Nov 1999) \*\*\*\*\*

Circuit cu STCC

\*\*\*\* DC TRANSFER CURVES TEMPERATURE = 27.000 DEG C

\*\*\*\*\*

V1	I(R1)	I(R2)	I(R3)	I(R5)	V(I4)
1.200E+01	3.750E+00	-2.500E+00	2.250E+00	-2.500E-01	4.500E+00

b)  
Fig. 5. Exercițiul a

b). Se dau:  $R_1=5\Omega$ ,  $R_3=4\Omega$ ,  $R_4=3\Omega$ ,  $R_5=2\Omega$ ,  $E_1=78V$ ,  $J_2=6A$ ,  $E_3=0.5 \cdot U_{g2}$ ,  $J_5=0.5 \cdot I_4$

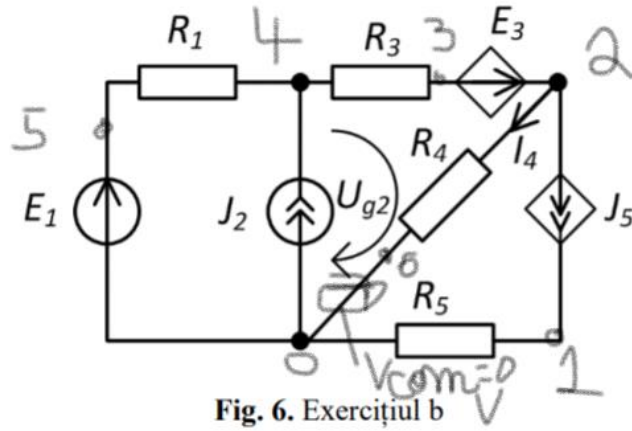


Fig. 6. Exercițiul b

```
subpunctul b
R1 4 5 5
R3 4 3 4
R4 2 6 3
R5 0 1 2
V1 5 0 78
Vcom 6 0 0
I2 0 4 6
E 2 3 4 0 0.5
FS 2 1 Vcom 0.5
.DC V1 78 78 1
.PRINT DC I(R1) I(R3) I(R4) I(R5) V(I2)
.END
```

```
R1 4 5 5
R3 4 3 4
R4 2 6 3
R5 0 1 2
V1 5 0 78
Vcom 6 0 0
I2 0 4 6
E 2 3 4 0 0.5
FS 2 1 Vcom 0.5
.DC V1 78 78 1
.PRINT DC I(R1) I(R3) I(R4) I(R5) V(I2)
.END
□
**** 04/01/21 16:10:51 ***** Evaluation PSpice (Nov 1999) *****

subpunctul b

****      DC TRANSFER CURVES              TEMPERATURE =    27.000 DEG C

*****

V1      I(R1)      I(R3)      I(R4)      I(R5)      V(I2)
7.800E+01 -6.000E+00  1.200E+01  8.000E+00 -4.000E+00 -4.800E+01
```

c)

c). Se dau:  $R_1=R_2=R_3=R_4=2\Omega$ ,  $E_1=12V$ ,  $E_2=6V$ ,  $J_5=1*U_1$

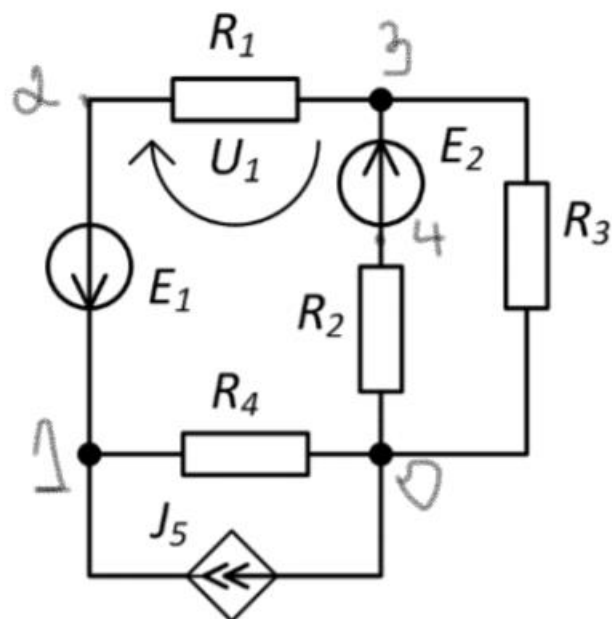


Fig. 4. Exercițiul c

```
subpunctul c
R1 3 2 2
R2 4 0 2
R3 0 3 2
R4 0 1 2
V1 1 2 12
V2 3 4 6
G_curent 0 1 3 2 1
.DC V1 12 12 1
.PRINT DC I(R1) I(R2) I(R3) I(R4) V(G_curent)
.END
```

```

R1 3 2 2
R2 4 0 2
R3 0 3 2
R4 0 1 2
V1 1 2 12
V2 3 4 6
G_curent 0 1 3 2 1
.DC V1 12 12 1
.PRINT DC I(R1) I(R2) I(R3) I(R4) V(G_curent)
.END
□
**** 04/01/21 16:24:55 ***** Evaluation PSpice (Nov 1999) *****

subpunctul c

****      DC TRANSFER CURVES              TEMPERATURE =  27.000 DEG C

*****

V1      I(R1)      I(R2)      I(R3)      I(R4)      V(G_curent)
1.200E+01  1.667E+00 -2.333E+00 -6.667E-01 -5.000E+00 -1.000E+01

JOB CONCLUDED

TOTAL JOB TIME      0.00
□

```