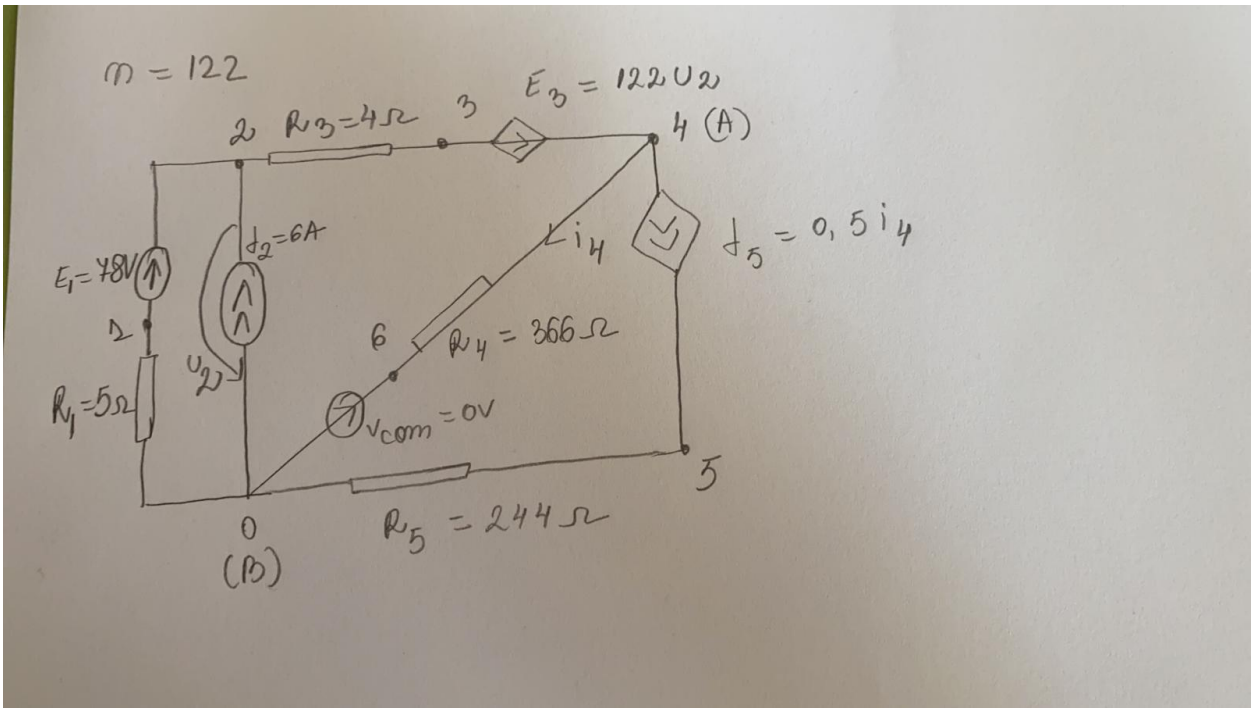
COLOCVIU-BAZELE ELECTROTEHNICII

Problema 1




```
Problema 1
R1 1 0 5
R3 2 3 4
R4 4 6 366
R5 0 5 244
V1 2 1 78
I2 0 2 6
Vcom 6 0 0
F5 4 5 Vcom 0.5
E3 4 3 2 0 122
.DC V1 78 78 1
.PRINT DC V(4,0) I(R4)
.END
```

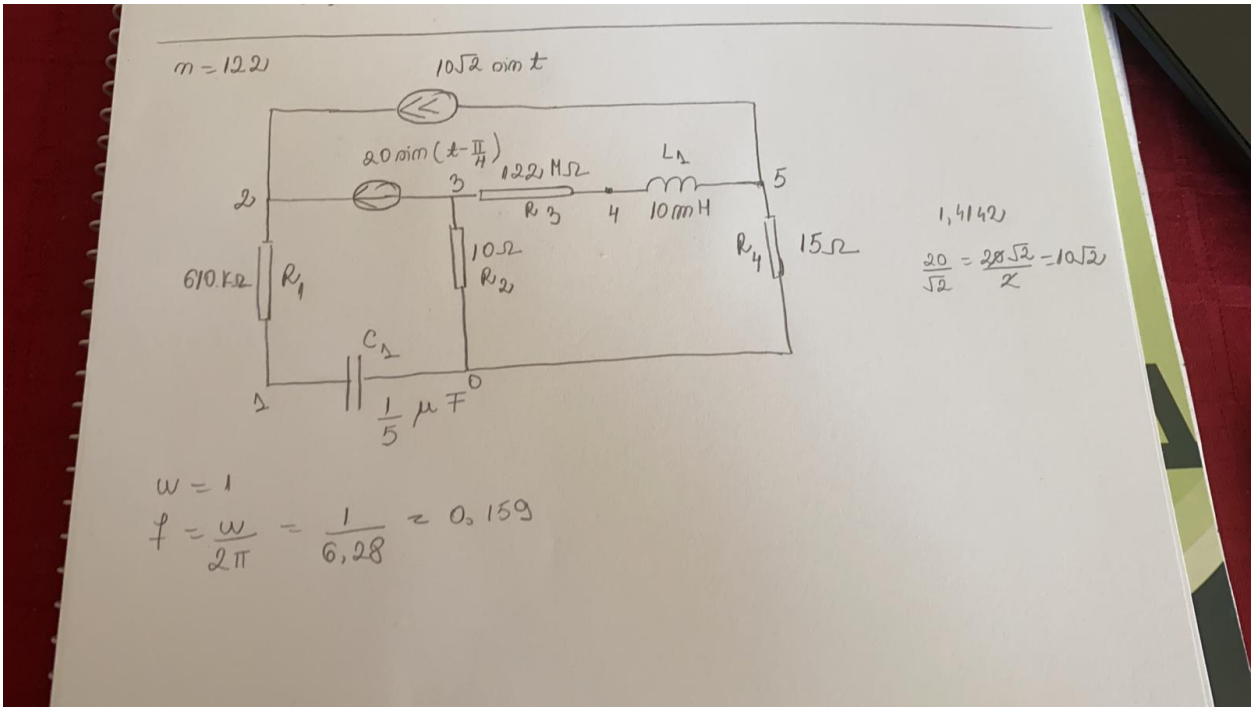
```
**** 05/27/21 12:13:45 ************ Evaluation PSpice (Nov 1999) ***************

 Problema 1


 ****     CIRCUIT DESCRIPTION


******************************************************************************



R1 1 0 5
R3 2 3 4
R4 4 6 366
R5 0 5 244
V1 2 1 78
I2 0 2 6
Vcom 6 0 0
F5 4 5 Vcom 0.5
E3 4 3 2 0 122
.DC V1 78 78 1
.PRINT DC V(4,0) I(R4)
.END

**** 05/27/21 12:13:45 ************ Evaluation PSpice (Nov 1999) ***************

 Problema 1


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


******************************************************************************
```

problema1.c... problema1 (a...

Circuit read in and checked, no errors

```
**** 05/27/21 12:13:45 ************ Evaluation PSpice (Nov 1999) ***************

 Problema 1


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


******************************************************************************


  V1          V(4,0)       I(R4)

   7.800E+01   3.756E+03   1.026E+01



         JOB CONCLUDED

         TOTAL JOB TIME            0.00
```

Problema 2:

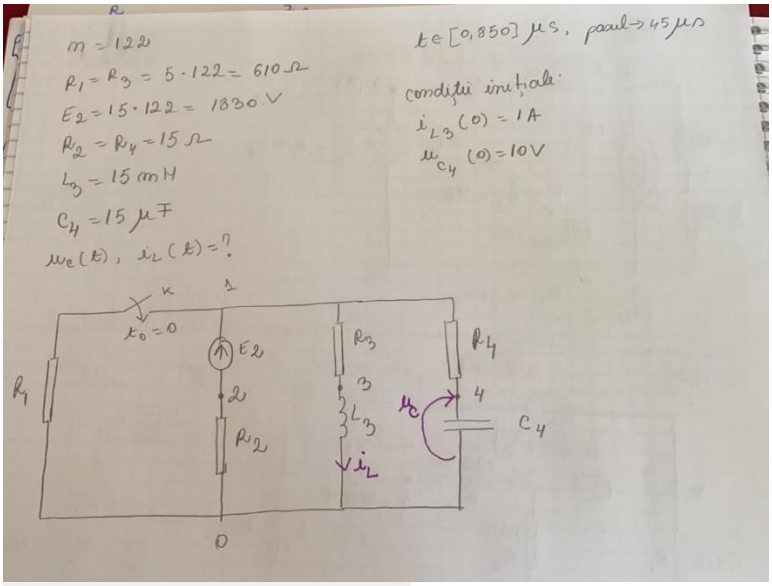



```
Problema 2
R1 1 2 610k
R2 3 0 10
R3 3 4 122000000
R4 5 0 15
L1 4 5 10m
C1 1 0 1/5u
V1 2 3 AC 14.14 -45
I1 5 2 AC 10 0
.AC LIN 1 0.159 0.159
.PRINT AC IR(V1) II(V1) IM(V1)
.END
```

```
 Problema 2


 ****     CIRCUIT DESCRIPTION


******************************************************************************



R1 1 2 610k
R2 3 0 10
R3 3 4 122000000
R4 5 0 15
L1 4 5 10m
C1 1 0 1/5u
V1 2 3 AC 14.14 -45
I1 5 2 AC 10 0
.AC LIN 1 0.159 0.159
.PRINT AC IR(V1) II(V1) IM(V1)
.END

**** 05/27/21 12:26:40 ********** Evaluation PSpice (Nov 1999) **************

 Problema 2


 ****     SMALL SIGNAL BIAS SOLUTION       TEMPERATURE =   27.000 DEG C


******************************************************************************



 NODE   VOLTAGE     NODE   VOLTAGE     NODE   VOLTAGE     NODE   VOLTAGE
```

```
 NODE   VOLTAGE     NODE   VOLTAGE     NODE   VOLTAGE     NODE   VOLTAGE

(    1)    0.0000  (    2)    0.0000  (    3)    0.0000  (    4)    0.0000

(    5)    0.0000



    VOLTAGE SOURCE CURRENTS
    NAME         CURRENT

    V1           0.000E+00

    TOTAL POWER DISSIPATION   0.00E+00  WATTS

□
**** 05/27/21 12:26:40 ********** Evaluation PSpice (Nov 1999) **************

 Problema 2

 ****     AC ANALYSIS                    TEMPERATURE =   27.000 DEG C

*******************************************************************************



  FREQ        IR(V1)      II(V1)      IM(V1)

   1.590E-01   1.000E+01   1.639E-05   1.000E+01
```

Problema 3:




```
Problema 3
R1 0 1 610
R2 2 0 15
R3 1 3 610
R4 1 4 15
L3 3 0 15m IC=1
C4 0 4 15u IC=10
V2 1 2 1830
.TRAN 45us 850us 0us
.PROBE
.END
```