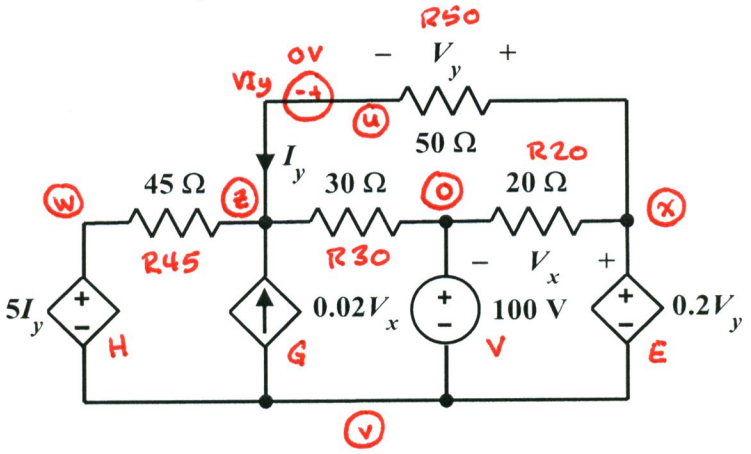
EE 2240

Problem #07

Use PSpice to determine V_x and I_y.



```
Problem #07
VIy u   z   dc  0
R50 x   u   50
R45 w   z   45
R30 z   0   30
R20 0   x   20
H   w   v   VIy 5
G   v   z   x   0   0.02
V   0   v   dc  100
E   x   v   x   u   0.2
.end
```

**** 02/06/15 00:07:31 ****** PSpice Lite (October 2012) ****** ID# 10813 ****

Problem #07

**** CIRCUIT DESCRIPTION

****

```
VIy     u       z       dc      0
R50     x       u       50
R45     w       z       45
R30     z       0       30
R20     0       x       20
H       w       v       VIy     5
G       v       z       x       0       0.02
V       0       v       dc      100
E       x       v       x       u       0.2
.end
```

♀

**** 02/06/15 00:07:31 ****** PSpice Lite (October 2012) ****** ID# 10813 ****

Problem #07

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

****

NODE	VOLTAGE	NODE	VOLTAGE	NODE	VOLTAGE	NODE	VOLTAGE
(u)	-84.9060	(v)	-100.0000	(w)	-101.8900	(x)	-103.7700
(z)	-84.9060						

This is V_x. (-103.77 V)

```
    VOLTAGE SOURCE CURRENTS
    NAME         CURRENT

    VIy          -3.774E-01
    V            -8.019E+00

    TOTAL POWER DISSIPATION   8.02E+02  WATTS


          JOB CONCLUDED

**** 02/06/15 00:07:31 ****** PSpice Lite (October 2012) ****** ID# 10813 ****

 Problem #07

 ****     JOB STATISTICS SUMMARY

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


  Total job time (using Solver 1)   =        0.00
```

This is Iy. (-0.3774 A)