Console

-->//For p1, the 5-A current is out of the positive terminal (or into the negative terminal h

-->

-->// power(p) in watts is given by p=V*I

-->

-->// v voltage in volts and i current in Amperes

-->

-->p1=20*-5;

-->

-->disp("p1=")

 p1=

-->disp(p1)

 - 100.

-->units='Watts W'
 units =

 Watts W

-->p1=[string(p1) units];

-->disp(p1)

!-100 Watts W !

-->

-->// in watts

-->

-->

-->// power in p1 is -100w ie. the supplied power

-->

-->//For p2 and p3, the current flows into the positive terminal of the element in each ca
nce,

-->

-->p2=12*5;

-->

-->disp("p2=")

   p2=

-->disp(p2)

    60.

-->units='Watts W'
 units =

  Watts   W

-->p2=[string(p2) units];

-->disp(p2)

!60 Watts W !

-->

-->// in watts

-->

-->

-->// p2 is 60w absorbed power

-->

-->p3=8*6;

```
-->

-->disp("p3=")

   p3=

-->disp(p3)

    48.

-->units='Watts W'
 units  =

  Watts   W

-->p3=[string(p3) units];

-->disp(p3)

!48  Watts W  !

-->

-->// in watts

-->

-->

-->// p3 is absorbed power

-->

-->//For p4,we should note that the voltage is 8V(positive at the top), the same as the vo
 for p3, since both the passive element and the dependent source are connected to the
erminals.

-->

-->// i current is 5A

-->

-->p4=8*(-0.2*5);

-->
```

```
-->disp("p4=")

   p4=

-->disp(p4)

  - 8.

-->units='Watts W'
 units  =

  Watts   W

-->p4=[string(p4) units];

-->disp(p4)

!-8  Watts W  !

-->

-->// in watts

-->

-->

-->// p4 is -8w supplied power

-->

-->// now...

-->p1=-100;

-->p2=60;

-->p3=48;

-->p4=-8;

-->

-->p0=p1+p2+p3+p4;
```

```
-->disp(p0)
    0.
-->
-->disp("W")
  W
-->// in watts W
-->
-->// this shows that total power supplied equals total power absorbed.
-->
-->
```