circuit HWZ

1) A series means that 2 or more resistors are positional consequtively. -W-W-

A parallel circuit means that 2 or more resistors are
Parallel' to each other put are not in series.

An open circuit is where the resistance of d' circuit is .

A short circuit is where the the the residestance between two nodes is zero.

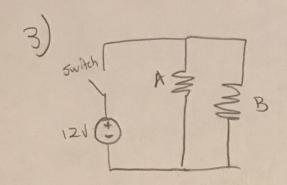
A ground note is when the Voltage is OV.

2) a) 6V dis=-6 1A=15.10-3 A $\alpha = -\frac{6}{15.10^3} \frac{\sqrt{3}}{x}$ b) $P = V \times I$

J-15.10-3 K

P: 0.09 W

c) Absorbm



The battery can represent the voltage source.

The lamps can represent resistors.

The switch can Pegresent aswitch.

4)
$$P = IV$$
 $V = IR$ $I = \frac{1}{R}$

$$P = \frac{1}{R}$$

$$V = -9$$

$$P = 640.10^{3} \text{ W}$$

$$R = \frac{1}{9} = \frac{1}{(640.10^{3})} = 100 \Omega$$

ABDA -80+13in+4iy=0 4in+13i3=80

BCDA 4:2+20:0-4:,=0 4:,-4:2=40

4CBA Siy-412-1318-0

ACDA -80 +8:4+ 40=0 8:4= 40

814=40 14=5 K

P801 - Pd13

V=IR Va=(v)(5+b)=4(15)=60V -240 + Va + Vb = 0 = Vb=1801 13= 100 = 9# 1 11=11+4= 11=9-4=5A -V, +416+V6=0 VC=416+V6=45)+180=200V V1=240-Vc = 40 V 10-10-20 A 1a=16+16=5+20=25A R=4-40= 1.6 A b) 1,=1a+4=25+4=29A Pc=240.- 240.29=6960 W

7) 9)
$$-12+2i+5i=0$$
 $12=2i+5i=0$
 $8i+2i-6i=0$
 $10i=6i=0$
 $12=i=1=0$
 $12=i=1=0$
 $12=2=0$
b) $I_{1}=i=1=1$
 $1=i=1=0$
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$$P_{q}=8: I=8.1.17=136W$$
 $P_{5}=8: I: N_{1}=9.2.10=160W$
 $P_{5}=9: I: N_{1}=9.2.10=160W$
 P_{5}