$$R_2 = 2 \qquad 2V = 1$$

$$R_3 = 2 \qquad 1V = 2$$

$$\frac{1}{0.5A} = 2$$

$$R_3 = \frac{1}{0.5A} = 2$$

17) a) 
$$V = 5V$$
 $R = 1-2$ 
 $I = \frac{V}{R} = \frac{5V}{10} = \frac{15A}{15}$ 
 $V = 30V$ 
 $V = 15KR$ 
 $V = 15KR$ 
 $V = 15KR$ 

d) 
$$V=30V$$
  $30V$   $2mA$   
 $R=15KR$   $15KR$   $2mA$   
e)  $V=750V$   $250V$   $250V$   $5.6MR$   $-44.64$ ,  $A$ 

30) 
$$V = I \cdot R$$
  
a)  $I = ImA$  =  $ImA \cdot IDR = 0.001 \cdot 10$   
 $E = I \cdot 0 \cdot R = 1.00 \cdot 10^{-6} \cdot (1.10^{-3}) = 10.00 \cdot 10^{-6} \cdot (1.10^{-3}) = 10.00 \cdot 10^{-6} \cdot (1.10^{-3}) = 10.00 \cdot 10^{-6} \cdot (1.10^{-6}) \cdot (1.10^{-6$ 

 $V = 18V \qquad P_b = \frac{18}{100.10^{-3}} = \frac{1805}{100.10^{-3}}$ 

29)

C) If the resistor is set to zero, ignoring the wirers resistance, you would have made 9 short circuit.