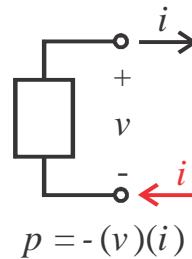
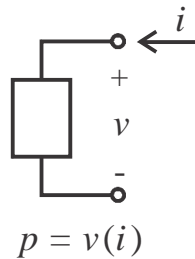


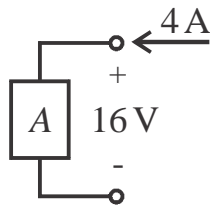
## Passive Sign Convention for power

- $p > 0 \Rightarrow$  element absorbs power and  $p < 0 \Rightarrow$  element supplies power



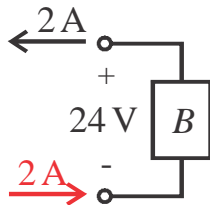
### Examples-

a)



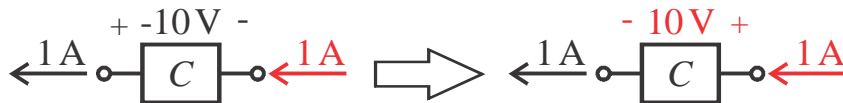
$$p_A = 16(4) = 64 \text{ W (element absorbs power)}$$

b)



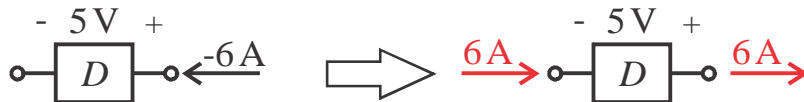
$$p_B = -24(2) = -48 \text{ W (element supplies power)}$$

c)



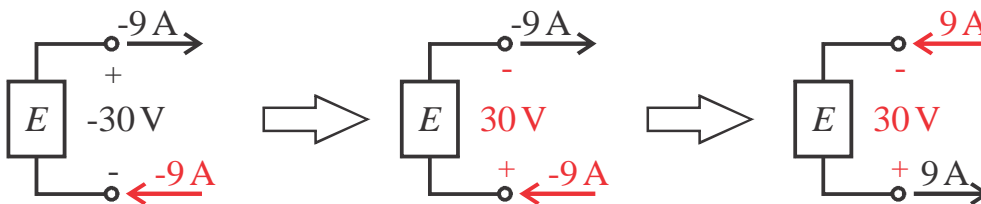
$$p_C = -(-10)(1) = 10 \text{ W} \quad \text{or} \quad p_C = 10(1) = 10 \text{ W (element absorbs power)}$$

d)



$$p_D = 5(-6) = -30 \text{ W} \quad \text{or} \quad p_D = -(-5)(6) = -30 \text{ W (element supplies power)}$$

e)



$$p_E = -(-30)(-9) = -270 \text{ W} \quad \text{or} \quad p_E = 30(-9) = -270 \text{ W} \quad \text{or} \quad p_E = -(30)(9) = -270 \text{ W (supplies power)}$$