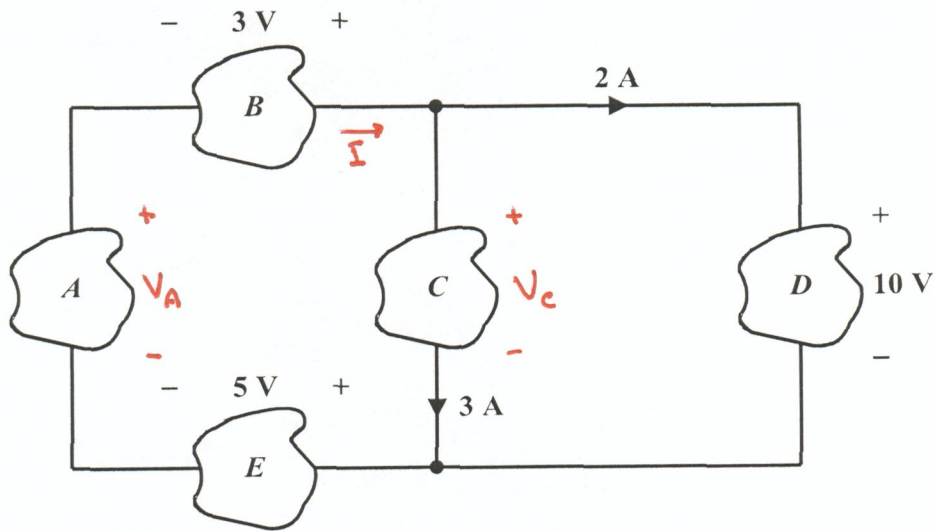


EE 2240  
Problem #09

Determine which components are absorbing power, and which are delivering power, and how much power each is absorbing or delivering.



$$I = 2A + 3A = 5A$$

$$V_A = -3V + 10V + 5V = 12V$$

$$V_C = V_D = 10V$$

- A delivers  $V_A \cdot I = (12V)(5A) = 60W$   
B delivers  $(3V)I = (3V)(5A) = 15W$   
C absorbs  $(3A)V_C = (3A)(10V) = 30W$   
D absorbs  $(10V)(2A) = 20W$   
E absorbs  $(5V)I = (5V)(5A) = 25W$