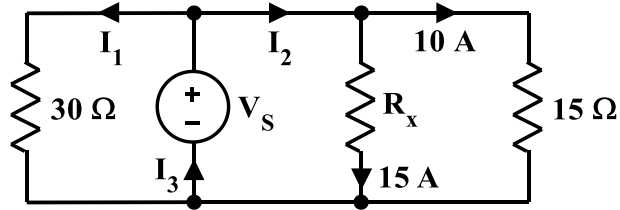


EE/EET 2240  
**Homework Problem #06**

For the circuit shown below:



- Determine the value of  $V_S$ .
- Determine the value of  $I_1$ .
- Determine the value of  $I_2$ .
- Determine the value of  $I_3$ .
- Determine the value of  $R_x$ .
- How much power does the  $15\Omega$  resistor absorb?
- How much power does the  $30\Omega$  resistor absorb?
- How much power does  $R_x$  absorb?
- How much power does the independent voltage source deliver?
- Verify that power is conserved.