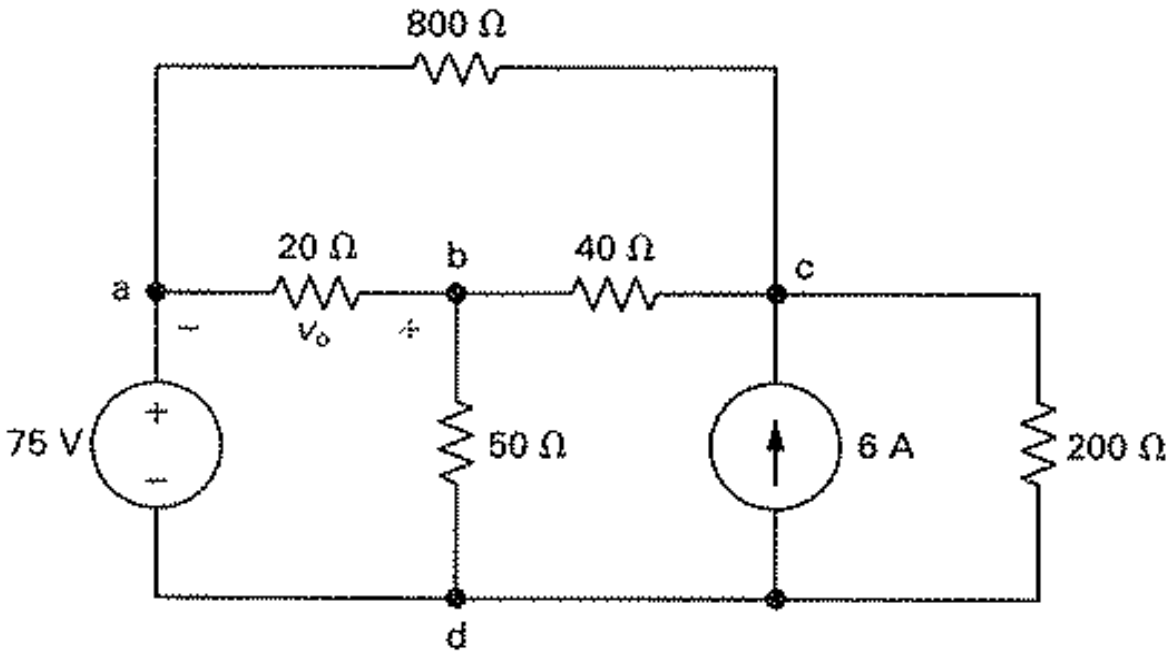
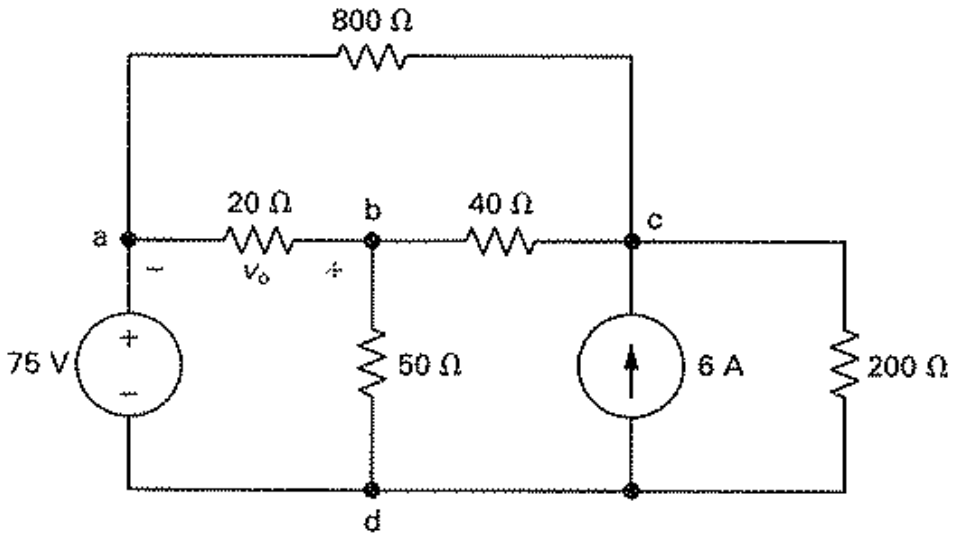
Node 6

examples

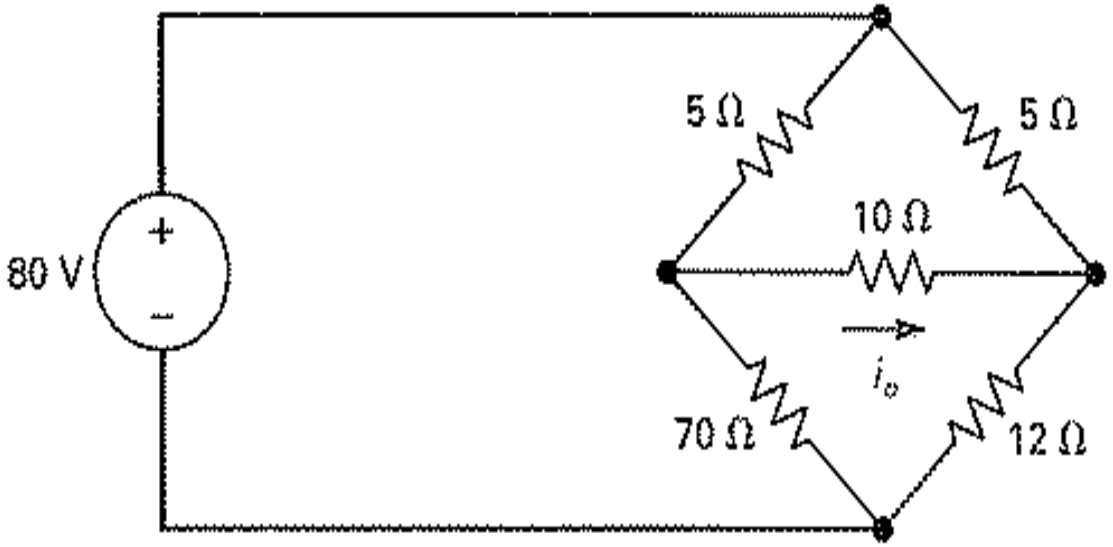
Example: find v_o



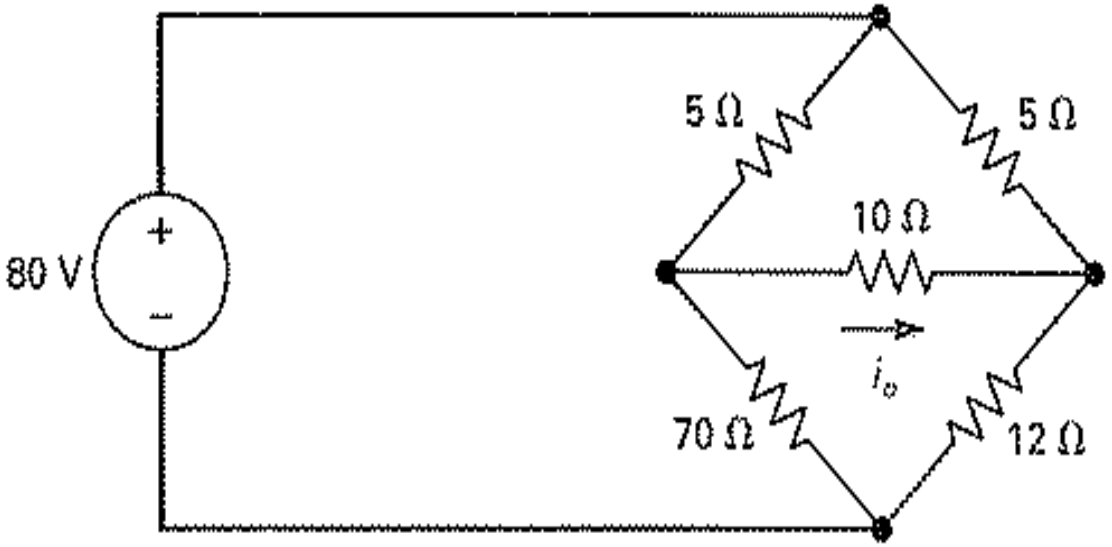


$v_o = 40\ V$

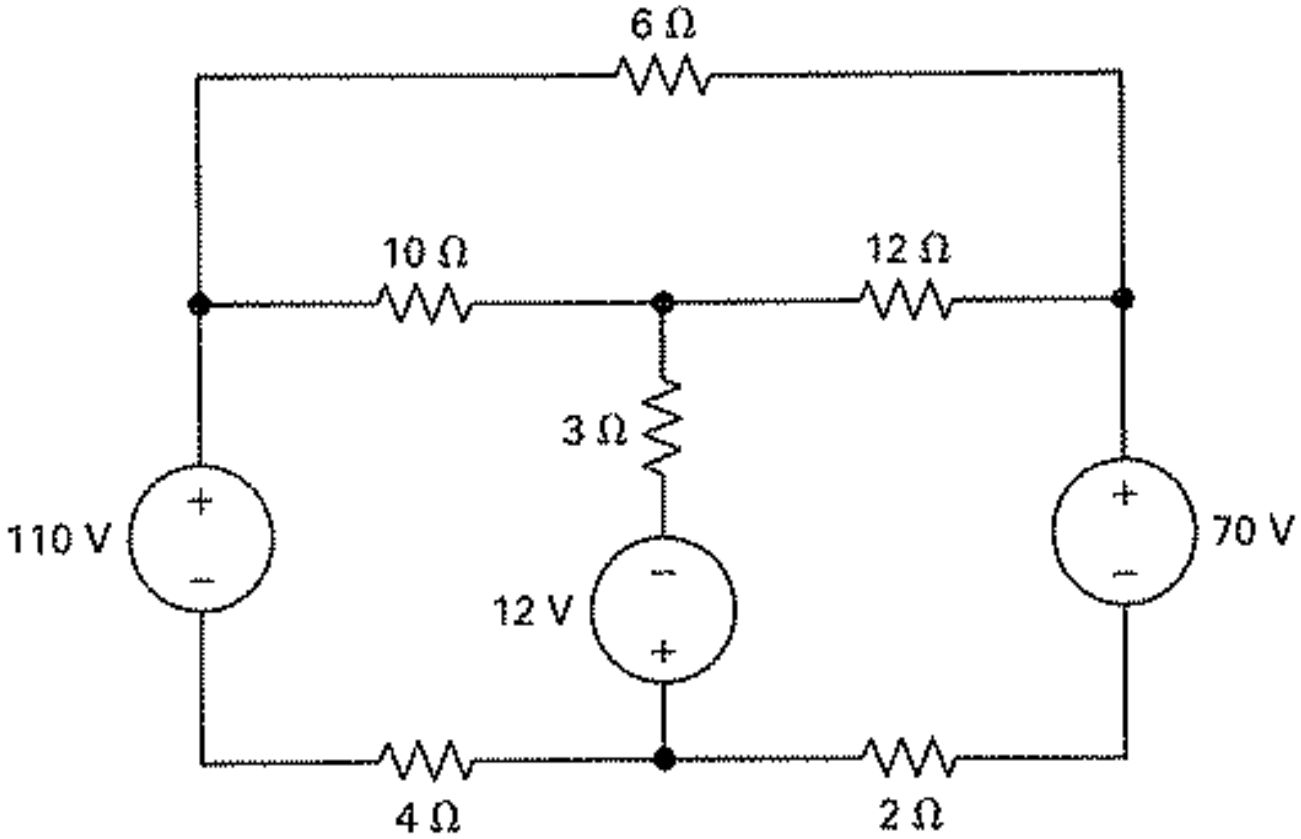
Example: find i_0

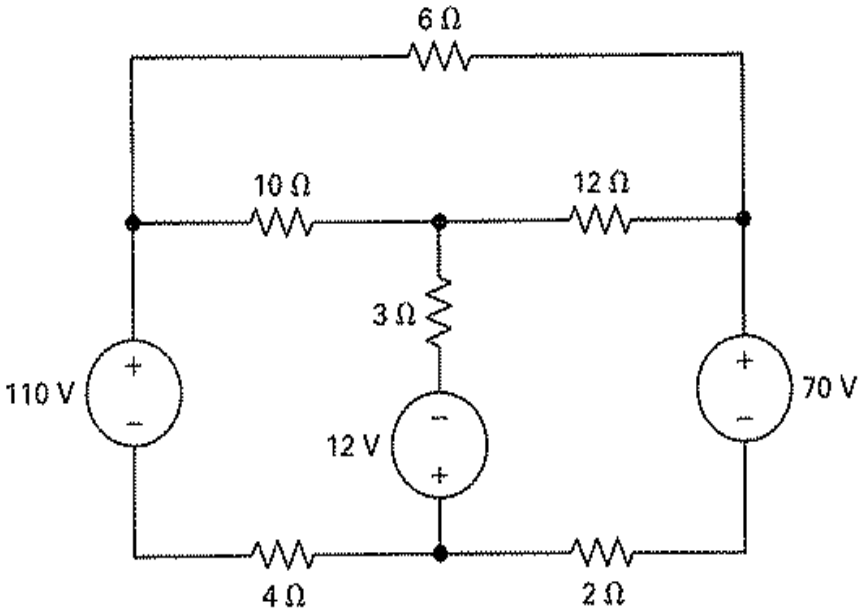


$i_0 = 1\ A$



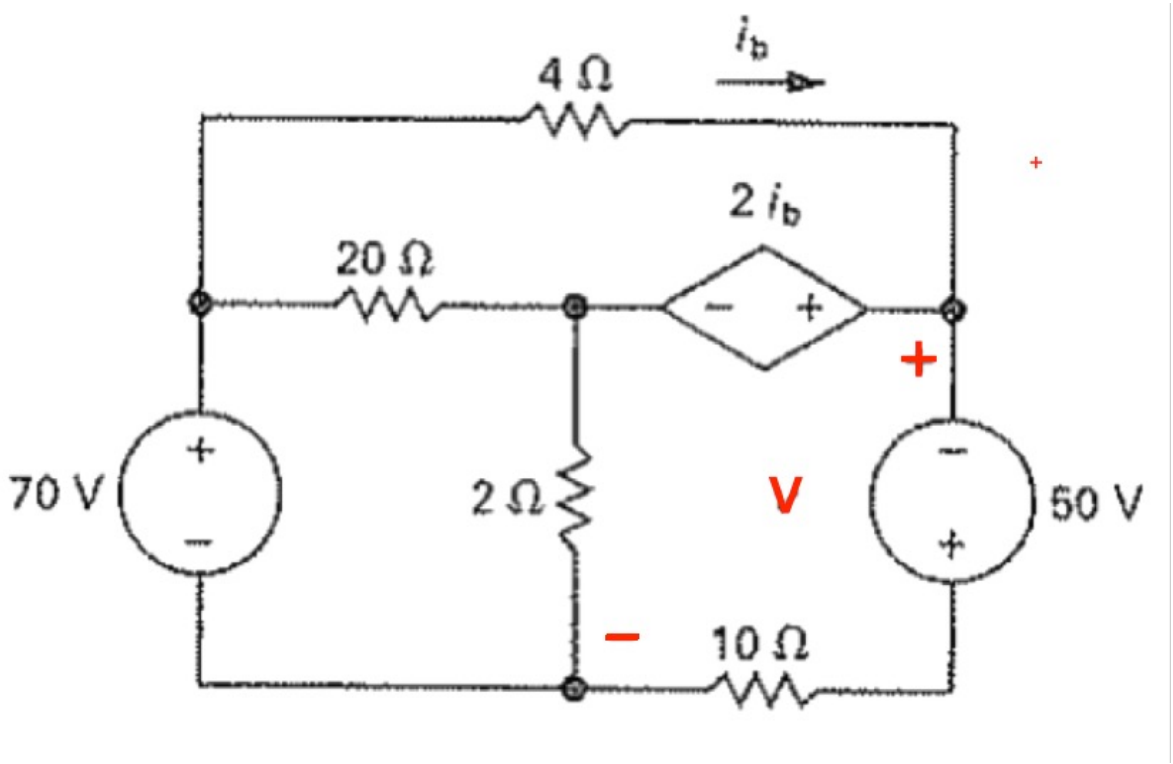
Example: find the power of the 10 Ω resistor

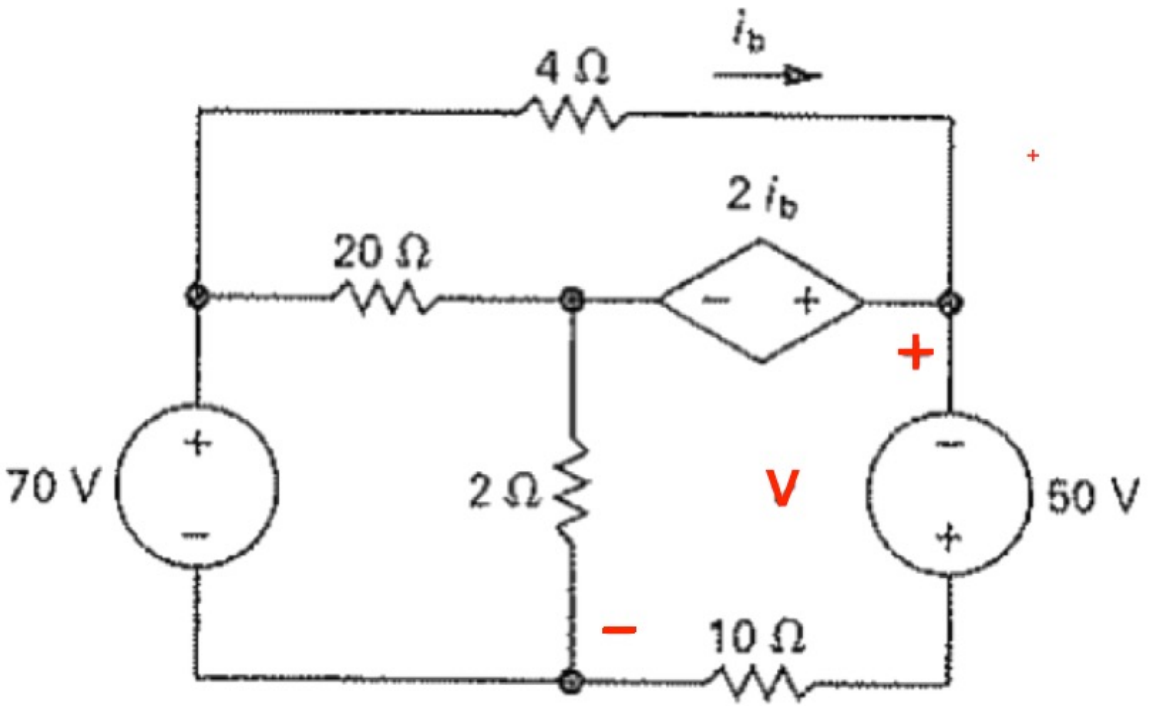




$P = 360\ W$

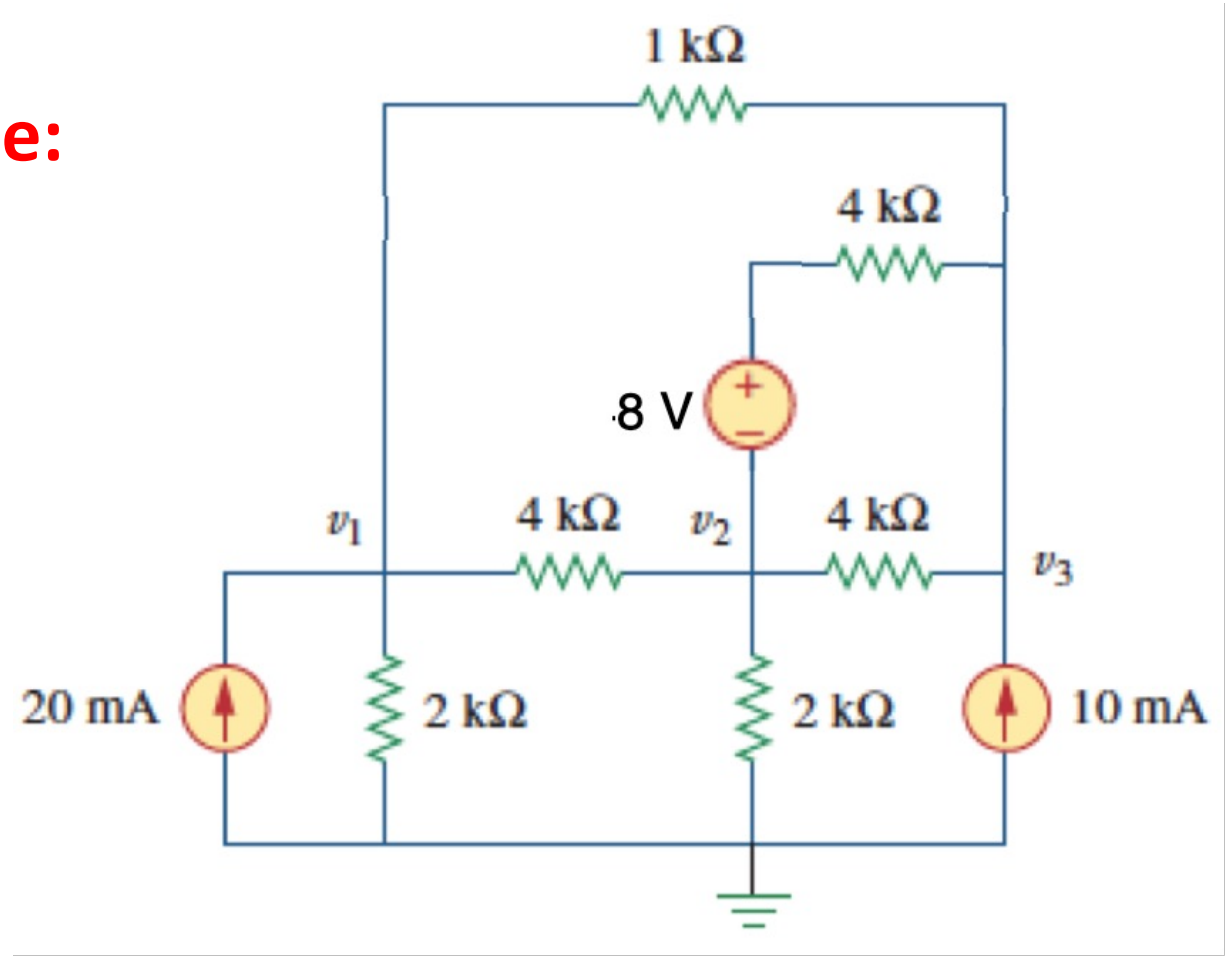
Example: find v

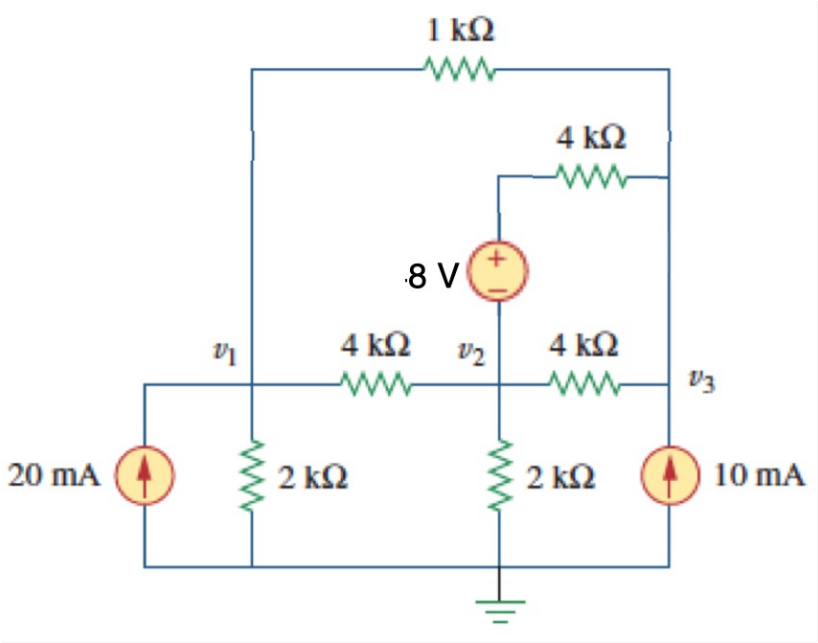




$v = 30\ V$

Example:

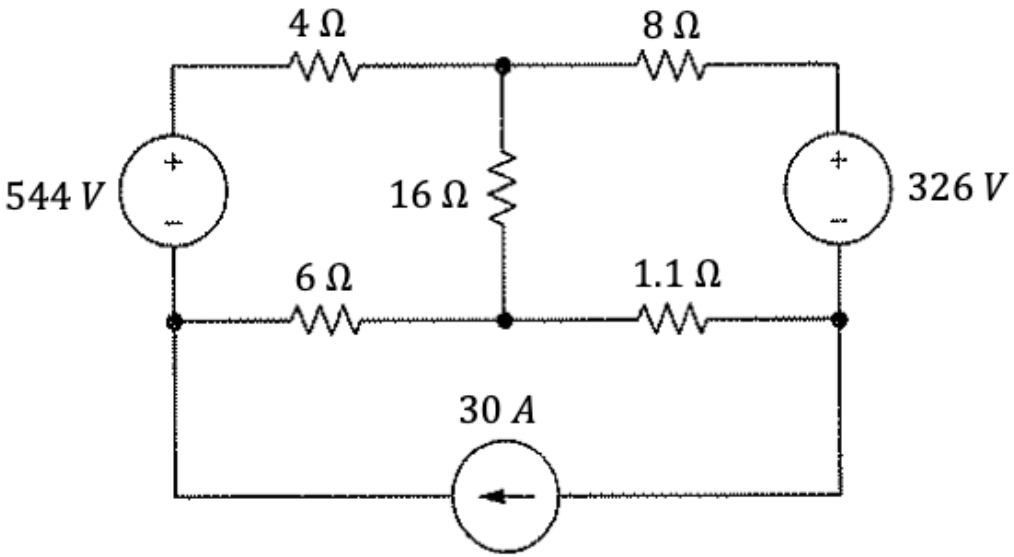




$v_1 = 37.8\ V$
$v_2 = 22.2\ V$
$v_3 = 40.6\ V$

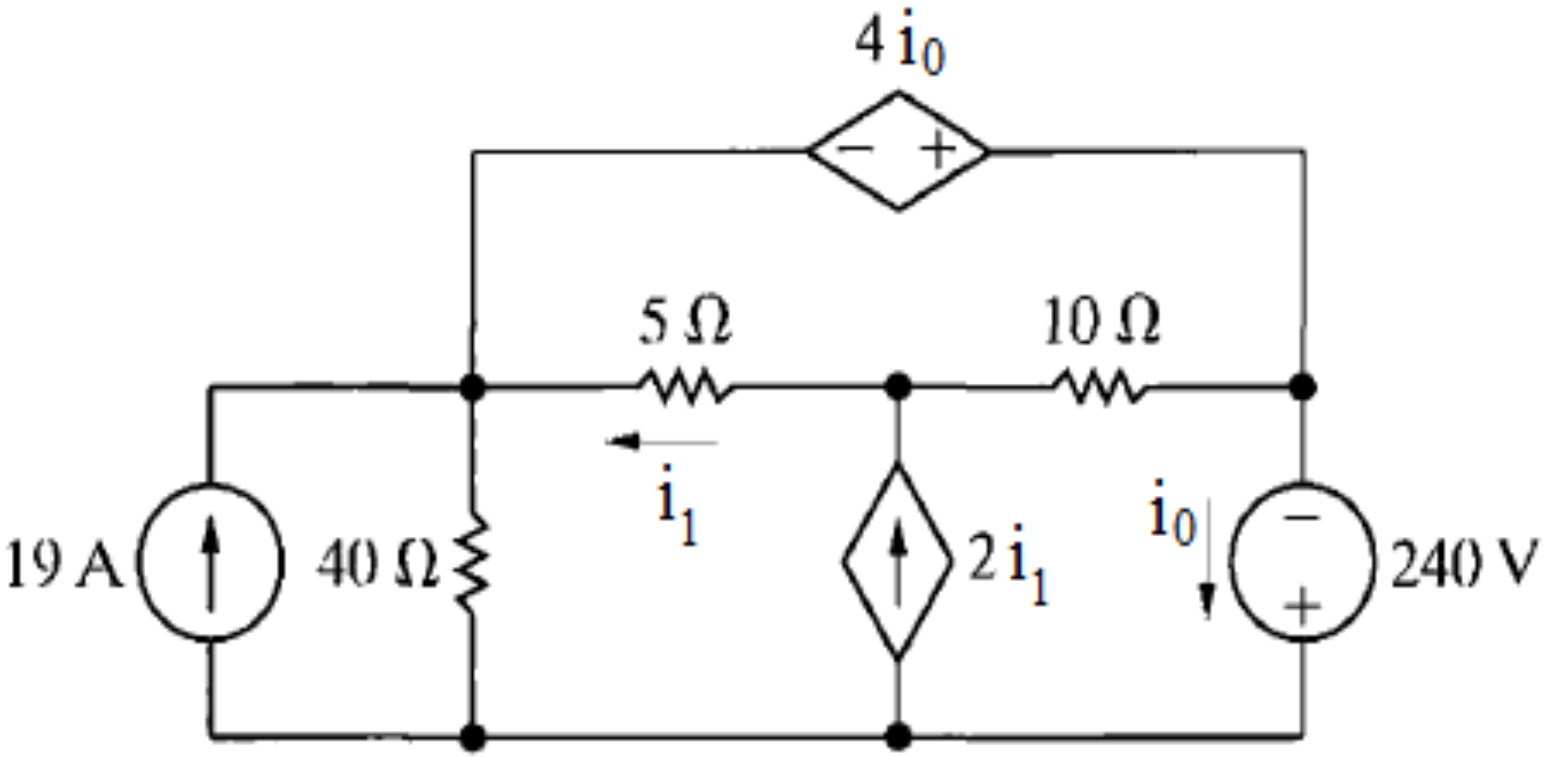
$60\ W$

Practice problem: find the power of the current source



$i_0 = 10\ A$
$i_1 = -8\ A$

Practice problem: find i_0 and i_1



Practice problem: The variable voltage source shown in the circuit below (the source with the diagonal line through it) is adjusted so that the power absorbed by the 5 Ω resistor is 5 watts. Find the value of $v_{DC.}$