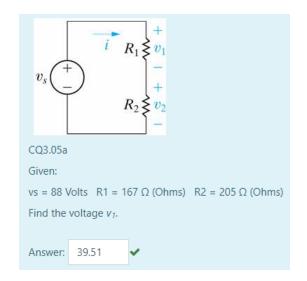


i = i, + i + i =

Vo: (2A)(5Ω): IDY

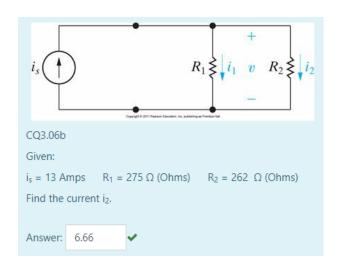
i2 : 20 - 8 - 10 : 2 A



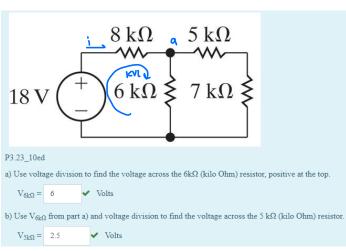
$$V = iR \rightarrow i = V/R$$

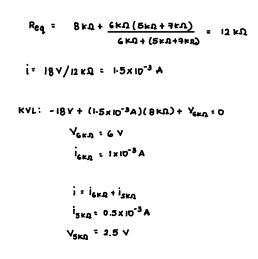
$$i = i_1 = i_2$$

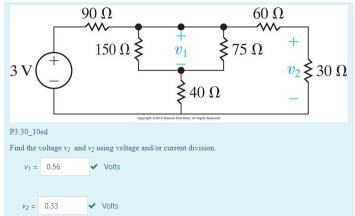
$$\frac{V_c}{R_{eq}} = \frac{V_1}{R_1} \qquad V_1 = \frac{V_c R_1}{R_1 + R_2} = \frac{(88)(167)}{167 + 205} = 39.51 \text{ V}$$

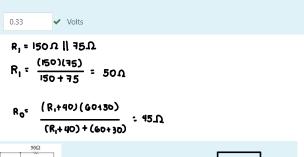


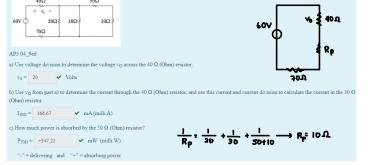
$$\frac{1}{2}$$
:  $\frac{i_s R_s}{R_s + R_s} = \frac{(13 \text{ A})(275 \Omega)}{275 \Omega + 262 \Omega} = 6.66 \text{ A}$ 

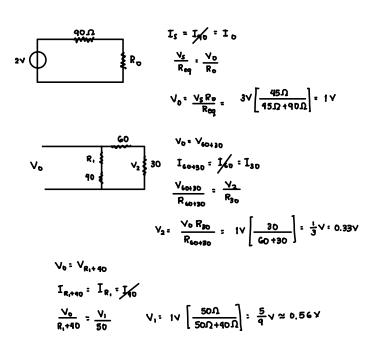


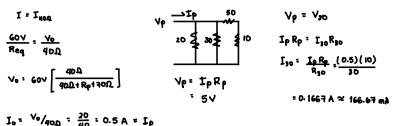






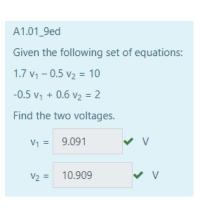






Vp = V50+30

## A1.02\_9ed Given the following set of equations: $25 i_1 - 5 i_2 - 20 i_3 = 50$ $-5 i_1 + 10 i_2 - 4 i_3 = 0$ $-5 i_1 - 4 i_2 + 9 i_3 = 0$ Find the three currents. $i_1 = 29.6$ $\checkmark$ A $i_2 = 26$ $\checkmark$ A $i_3 = 28$ $\checkmark$ A



A1.08\_9ed Given this set of equations: 
$$\frac{v_0 - 10V}{10\Omega} + \frac{v_0}{40\Omega} + \frac{v_0 - (-20i_\Delta)}{20\Omega} = 0$$
 
$$v_0 \left( -\frac{1}{10\Omega} \right) + i_\Delta \left( -\frac{1}{3} \right) = -1.333$$
 Find the voltage and current. 
$$v_0 = \underbrace{23.992}_{\textbf{i}_\Delta} \quad \checkmark \quad \textbf{A}$$

$$I_{50430} : I_{50}$$

$$\frac{\sqrt{p}}{500+100} : I_{50}$$

$$I_{50} : \frac{1}{12} A$$

$$P = + (\frac{1}{12})^{2} (50) = 0.34712 \times 347.22 \text{ mW}$$