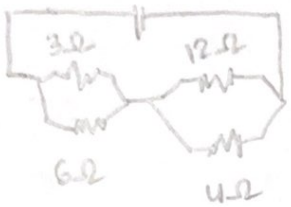
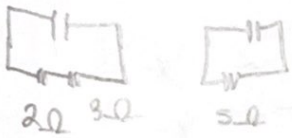
#1#7

26.13)



$R_x = (1/3 + 1/6)^{-1} = 2$

$R_y = (1/12 + 1/4)^{-1} = 3$



$V = RI \qquad I = \frac{60V}{5\Omega} = 12A$

$V_x = RI = (2\Omega)(12A) = 24A$

$V_y = (3\Omega)(12A) = 36V$

$I_3 = \frac{V}{R} = \frac{24}{3} = 8A \qquad I_{12} = \frac{36}{12} = 3$

$I_6 = \frac{24}{6} = 4A \qquad I_4 = \frac{36}{4} = 9$

$R_{eq} = 5.00\Omega$

R(Ω)	V(V)	I(A)
3	24	8
6	24	4
12	36	3
4	36	9

26.17)

$V = RI \qquad I_2 = 6A = I_1 \qquad R_x = 3\Omega$

$V_x = R_x I_x = 18V = V_6 \qquad \mathcal{E} = 18V$

$V_6 = R_6 I_6 \qquad I_6 = 18/6 = 3A$

$V_\mathcal{E} = 18V$

$I_6 = 3A$

26.24)

1) $10V + 30(I_1 - I_2) = 0$

2) $-30(I_1 - I_2) + 20I_2 - 5V = 0$

$30I_1 - 30I_2 = -10 \qquad I_1 = -7/12A$

$-30I_1 + 50I_2 = 5 \qquad I_2 = -1/4A$

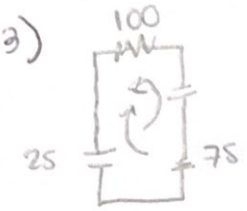
a) $= 7/12 - 1/4 = 1/3A$

$1/3A = I_{30}$

b) $I_{20} = 1/4A$

c) $7/12A = I_1$

26.33)



$25 + 100I_1 + 15 + 75I_1 = 0$

$175I_1 = -40$

$I_1 = -8/35$

$V = 15V - 75 \cdot (8/35) = -2.14V$ R// a) 2.14V a>b

b)

$I_1 > I_2$

$25 + 100I_1 = 0$

$15 + 75I_2 = 0$

$I_1 = 1/4 \quad I_2 = -1/5$

$A = I_1 - I_2 = 1/20A$

$V = 15V - 75 \cdot 1/5 = 0$

$A = 0.05A \quad V = 0V$ haaa abajo //