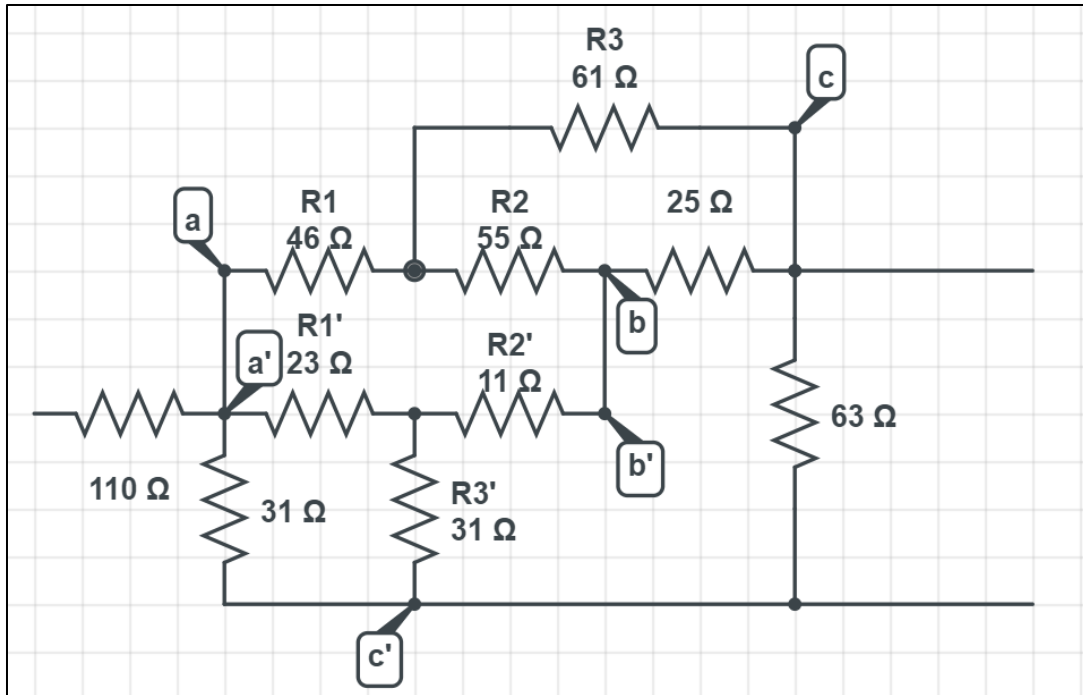




$$R_A = \frac{(46\Omega)(55\Omega) + (55\Omega)(61\Omega) + (61\Omega)(46\Omega)}{55\Omega} = 158.02\Omega$$

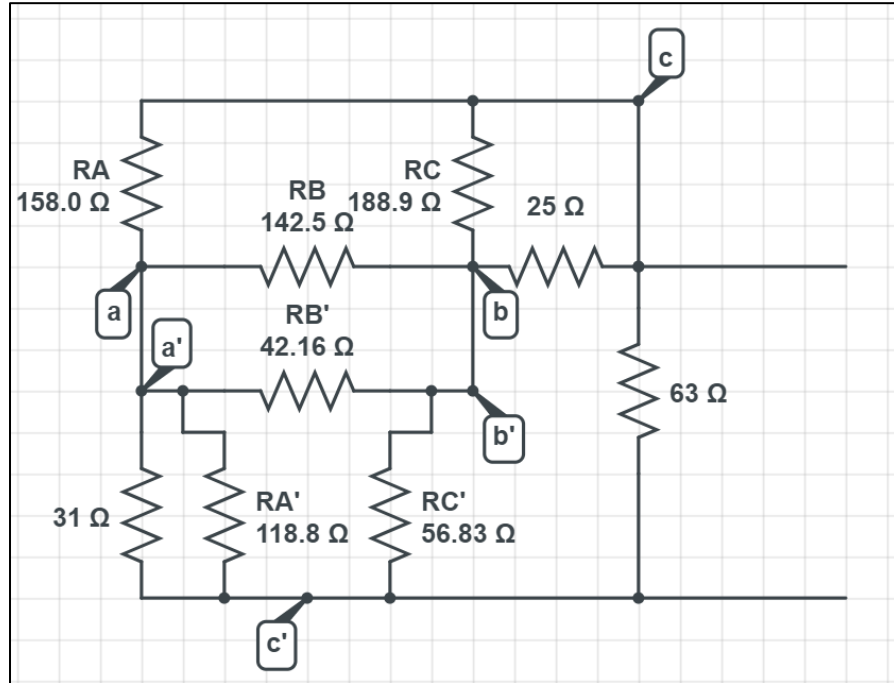
$$R_B = \frac{(46\Omega)(55\Omega) + (55\Omega)(61\Omega) + (61\Omega)(46\Omega)}{61\Omega} = 142.48\Omega$$

$$R_C = \frac{(46\Omega)(55\Omega) + (55\Omega)(61\Omega) + (61\Omega)(46\Omega)}{46\Omega} = 188.93\Omega$$

$$R_{A'} = \frac{(23\Omega)(11\Omega) + (11\Omega)(31\Omega) + (31\Omega)(23\Omega)}{11\Omega} = 118.82\Omega$$

$$R_{B'} = \frac{(23\Omega)(11\Omega) + (11\Omega)(31\Omega) + (31\Omega)(23\Omega)}{31\Omega} = 42.16\Omega$$

$$R_{C'} = \frac{(23\Omega)(11\Omega) + (11\Omega)(31\Omega) + (31\Omega)(23\Omega)}{23\Omega} = 56.83\Omega$$

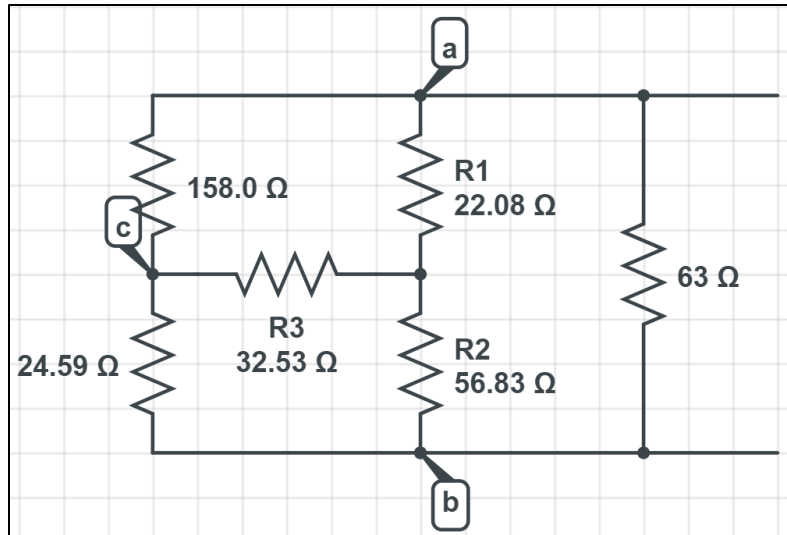


Tenemos tres pares de resistencias en paralelo.

$$(RC || 25\Omega) = \frac{(188.93\Omega)(25\Omega)}{188.93\Omega + 25\Omega} = 22.08\Omega$$

$$(RB || RB') = \frac{(142.48\Omega)(42.16\Omega)}{142.48\Omega + 42.16\Omega} = 32.53\Omega$$

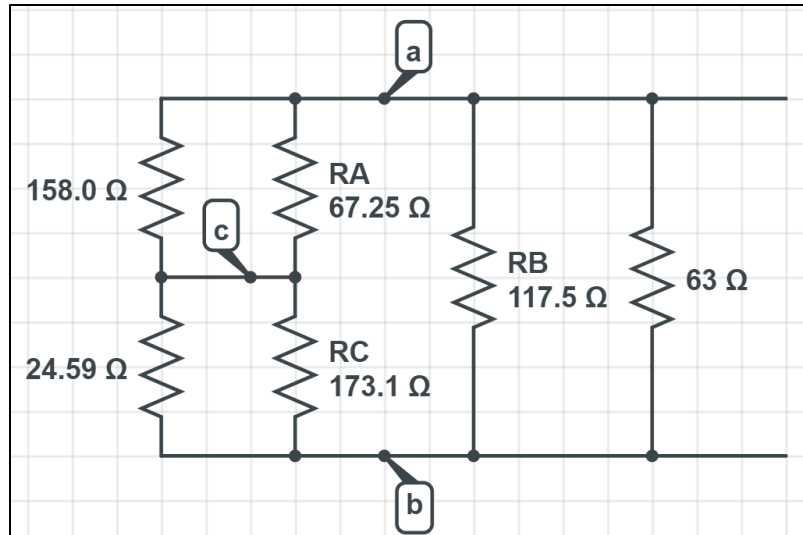
$$(RA' || 31\Omega) = \frac{(118.82\Omega)(31\Omega)}{118.82\Omega + 31\Omega} = 24.59\Omega$$



$$R_A = \frac{(22.08\Omega)(56.83\Omega) + (56.83\Omega)(32.53\Omega) + (32.53\Omega)(22.08\Omega)}{56.83\Omega} = 67.25\Omega$$

$$R_B = \frac{(22.08\Omega)(56.83\Omega) + (56.83\Omega)(32.53\Omega) + (32.53\Omega)(22.08\Omega)}{32.53\Omega} = 117.48\Omega$$

$$R_C = \frac{(22.08\Omega)(56.83\Omega) + (56.83\Omega)(32.53\Omega) + (32.53\Omega)(22.08\Omega)}{22.08\Omega} = 173.09\Omega$$

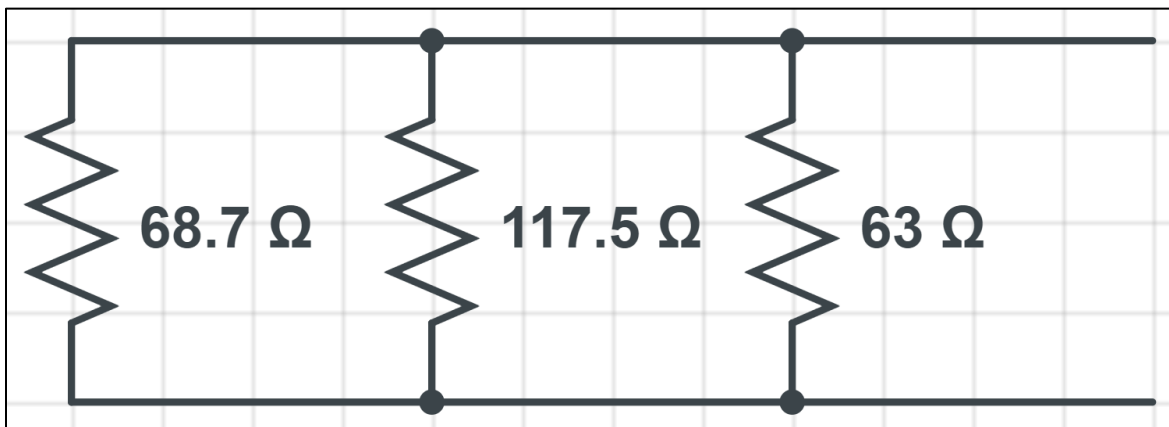


$$(RA || 158.02\Omega) = \frac{(67.25\Omega)(158.02\Omega)}{67.25\Omega + 158.02\Omega} = 47.17\Omega$$

$$(RC || 24.59\Omega) = \frac{(173.09\Omega)(24.59\Omega)}{173.09\Omega + 24.59\Omega} = 21.53\Omega$$

Sumamos estas 2 resistencias en serie.

$$47.17\Omega + 21.53\Omega = 68.7\Omega$$



Tenemos las tres resistencias en paralelo las sumamos de esta forma

$$\frac{1}{R} = \frac{1}{68.7} + \frac{1}{117.48} + \frac{1}{63}$$

$$R = 25.68\Omega$$