Resistors

Series

Rtot = R1 + R2 + ... + Rn

Parallel

Rtot = 1/(1/R1 + 1/R2 + ... + 1/Rn)

Y-Delta Transformation

Ra = (R1 * R2) / (R1 +R2 + R3)

Rb = (R2 * R3) / (R1+ R2 + R3)

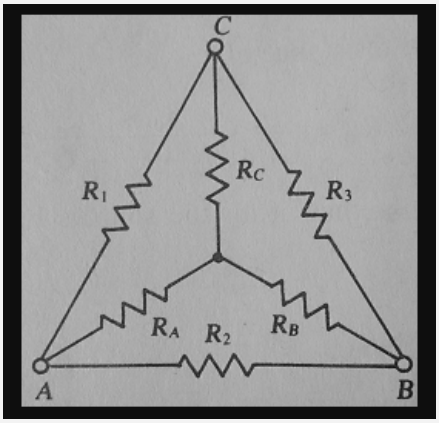
Rc = (R1 * R3) / (R1+ R2 + R3)

R1 = (RaRb + RaRc + RbRc) / Rb

R2 = (RaRb + RaRc + RbRc) / Rc

R3 = (RaRb + RaRc + RbRc) / Ra

Picture



By **logaritm**
cheatography.com/logaritm/

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