

Resistors

Series

$$R_{tot} = R_1 + R_2 + \dots + R_n$$

Parallel

$$R_{tot} = 1 / (1/R_1 + 1/R_2 + \dots + 1/R_n)$$

Y-Delta Transformation

$$R_a = (R_1 * R_2) / (R_1 + R_2 + R_3)$$

$$R_b = (R_2 * R_3) / (R_1 + R_2 + R_3)$$

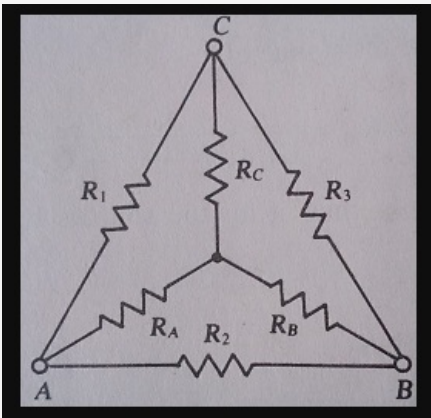
$$R_c = (R_1 * R_3) / (R_1 + R_2 + R_3)$$

$$R_1 = (R_a R_b + R_a R_c + R_b R_c) / R_b$$

$$R_2 = (R_a R_b + R_a R_c + R_b R_c) / R_c$$

$$R_3 = (R_a R_b + R_a R_c + R_b R_c) / R_a$$

Picture



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