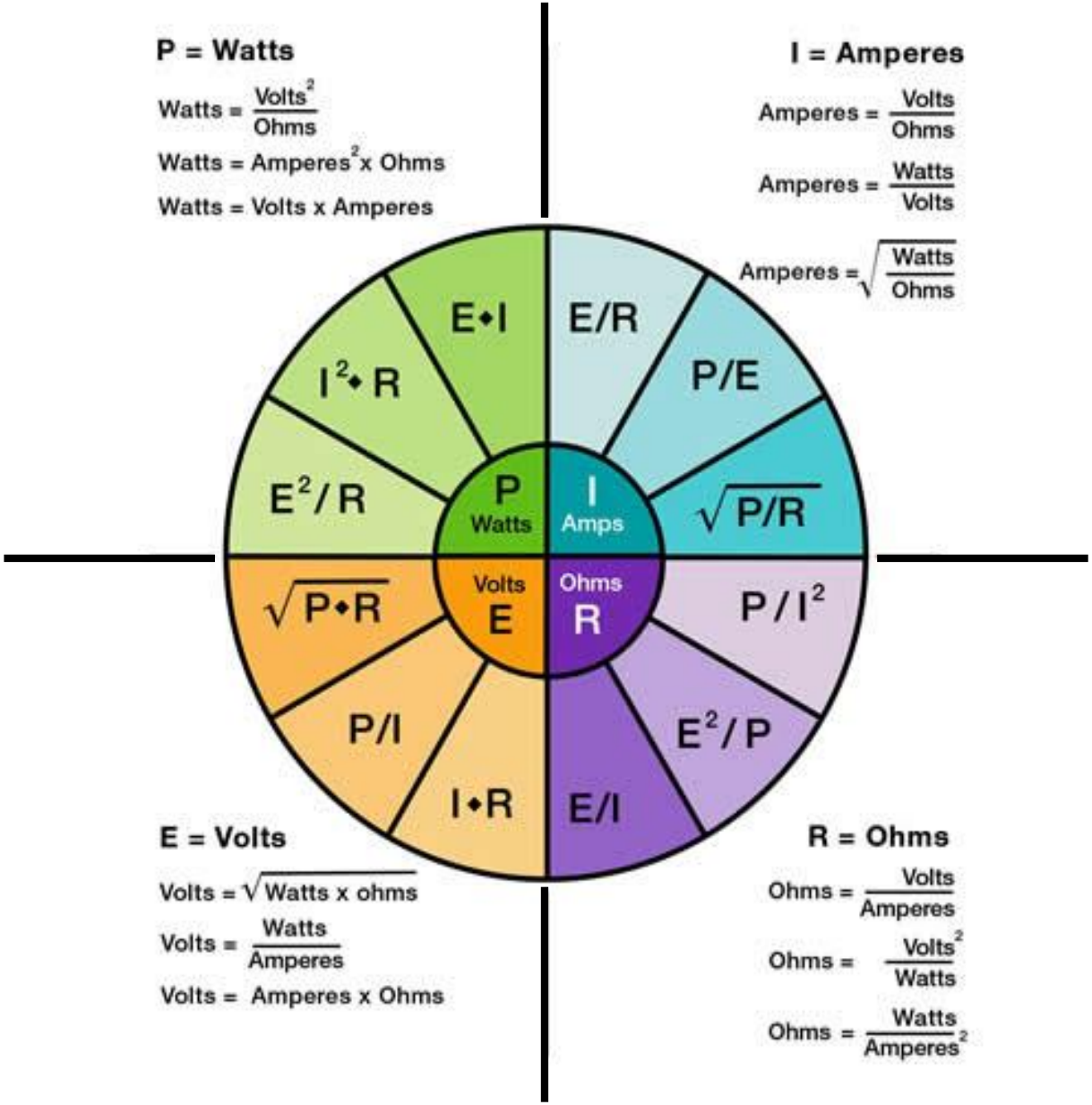

SERIES CIRCUITS

$$E = V_{R1} + V_{R2} + V_{R3} + \ldots . V_{Rn}$$

$$R_T = R_1 + R_2 + R_3 + \ldots . R_n$$

$$P_S = P_1 + P_2 + P_3 \ldots . P_n$$

PARALLEL CIRCUITS

$$I_T = I_{R1} + I_{R2} + I_{R3} + \ldots + I_{Rn}$$

$$R_T = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \ldots . \frac{1}{R_n}}$$

$$R_T = \frac{R_1 \; x \; R_2}{R_1 + R_2}$$

$$R_T = \frac{R_{\; of \; One \; Branch}}{The \; Number \; of \; Branches}$$

$$P_S = P_1 + P_2 + P_3 \ldots . P_n$$