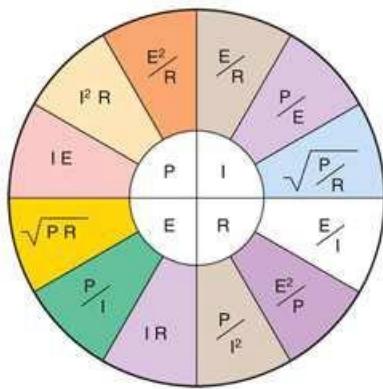


Instrumentation Formulas

For use with the following assessments:

- **Instrumentation Fitter**
- **Instrumentation Technician**
- **Industrial Maintenance Electrical & Instrumentation Technician**

Power Formulas



Resistance Formulas

$$TR = R_1 + R_2 + R_3 \dots$$

$$TR = \frac{1}{(1/R_1) + (1/R_2) + (1/R_3)}$$

Temperature Formulas

$$^{\circ}\text{C} = \frac{5}{9} (\text{ }^{\circ}\text{F} - 32)$$

$$\text{ }^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$

Pressure Formulas

$$\text{H}_2\text{O} = \text{PSI} \times 27.68$$

$$\text{PSIA} = \text{PSIG} + 14.7 \text{ PSI}$$

Absolute vacuum pressure = Barometric pressure – vacuum gauge reading