

- 16** The input power to a television is P_{in} . The useful sound and light power emitted by the television is P_{out} .

What is the efficiency of the television?

A $\frac{P_{\text{out}}}{P_{\text{in}}}$

B $\frac{P_{\text{in}} - P_{\text{out}}}{P_{\text{in}}}$

C $\frac{P_{\text{in}}}{P_{\text{out}}}$

D $\frac{P_{\text{out}}}{P_{\text{in}} - P_{\text{out}}}$

- 17** A light bulb is rated at 100 W and has a resistance of 240 Ω. The bulb is connected to a 120 V AC source. The power dissipated by the bulb is