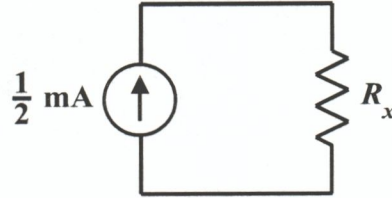


EE 2240
Problem #04

The power absorbed by R_x is 5 mW. Find R_x .



$$\left(\frac{1}{2} \text{ mA}\right)^2 R_x = 5 \text{ mW}$$

$$\Rightarrow R_x = \frac{5 \text{ mW}}{\left(\frac{1}{2} \text{ mA}\right)^2} = 20 \text{ k}\Omega$$