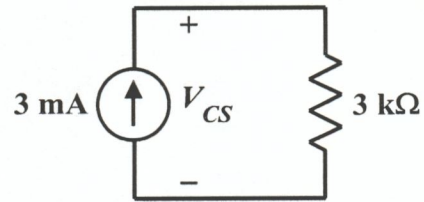


EE 2240
Problem #02

Find the voltage across the current source and the power absorbed by the resistor.



$$V_{CS} = (3k\Omega)(3mA) = 9V$$

$$P = \frac{V_{CS}^2}{3k\Omega} = 27mW$$

$$\text{or } P = (3mA)^2 (3k\Omega) = 27mW$$

$$\text{or } P = (3mA) V_{CS} = 27mW$$