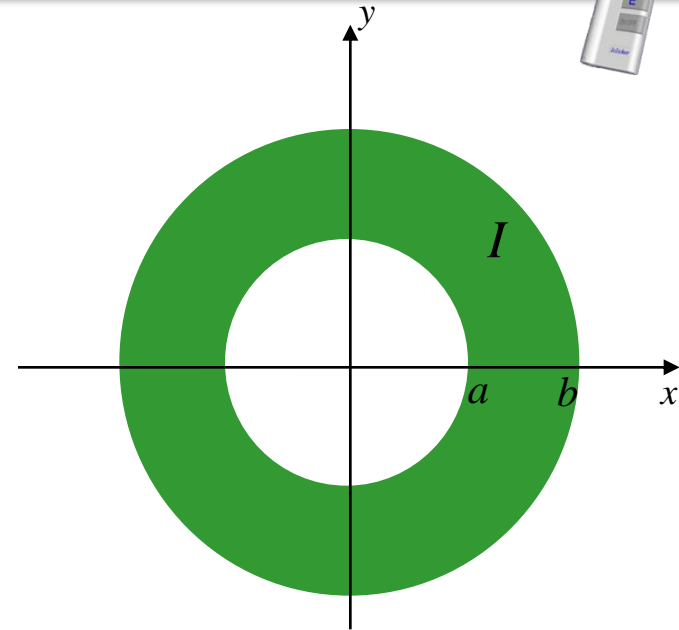


# Example Problem



What is the current density  $j$  ( $\text{Amp}/\text{m}^2$ ) in the conductor?



A)  $j = \frac{I}{\pi b^2}$

B)  $j = \frac{I}{\pi b^2 + \pi a^2}$

C)  $j = \frac{I}{\pi b^2 - \pi a^2}$

$j = I / \text{area}$        $\text{area} = \pi b^2 - \pi a^2$

$$j = \frac{I}{\pi b^2 - \pi a^2}$$