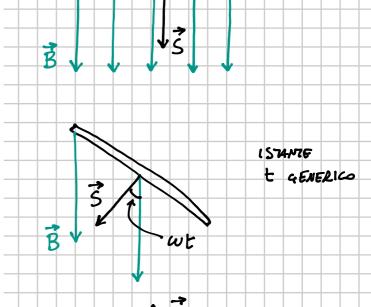


Calcola la carica totale che fluisce nella spira in mezzo giro, cioè tra t = 0 s e $t = \pi/\omega$.



 π

1574115

t=0

ISTUME

$$i(t) = -\frac{1}{R} \frac{d\Phi}{dt} = -\frac{1}{R} \frac{d}{dt} \left(BS\cos\omega t\right) = -\frac{1}{R}BS(-\sin\omega t)\cdot\omega$$

 $\pi = \omega t \implies t = \frac{\pi}{\omega}$

CARLUA TOPHUE

$$Q = \int dq = \int i dt = \int \frac{BS}{R} \omega \sin \omega t dt = \int \frac{BS}{R} \cos (\omega \cdot \frac{\pi}{\omega}) - (-\frac{BS}{R} \cos (\omega \cdot 0))$$
 $= \int (-\frac{BS}{R} \cos \omega t) dt = -\frac{BS}{R} \cos (\omega \cdot \frac{\pi}{\omega}) - (-\frac{BS}{R} \cos (\omega \cdot 0))$

APPLICATE

APPLICATE

 $\frac{\pi}{\omega}$

FOND. BET CHICAGO =
$$\frac{BS}{R}$$
 (COSO - COSTT) = $\frac{2BS}{R}$ = $\frac{2BS}{R}$