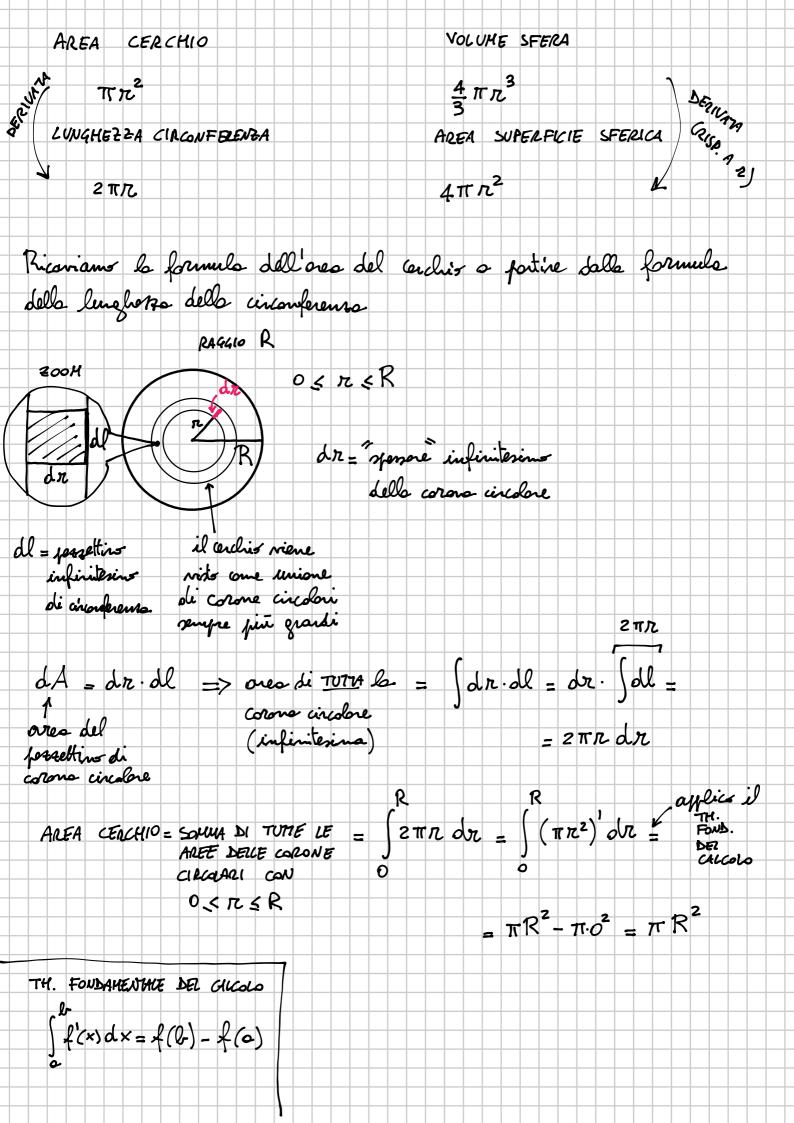
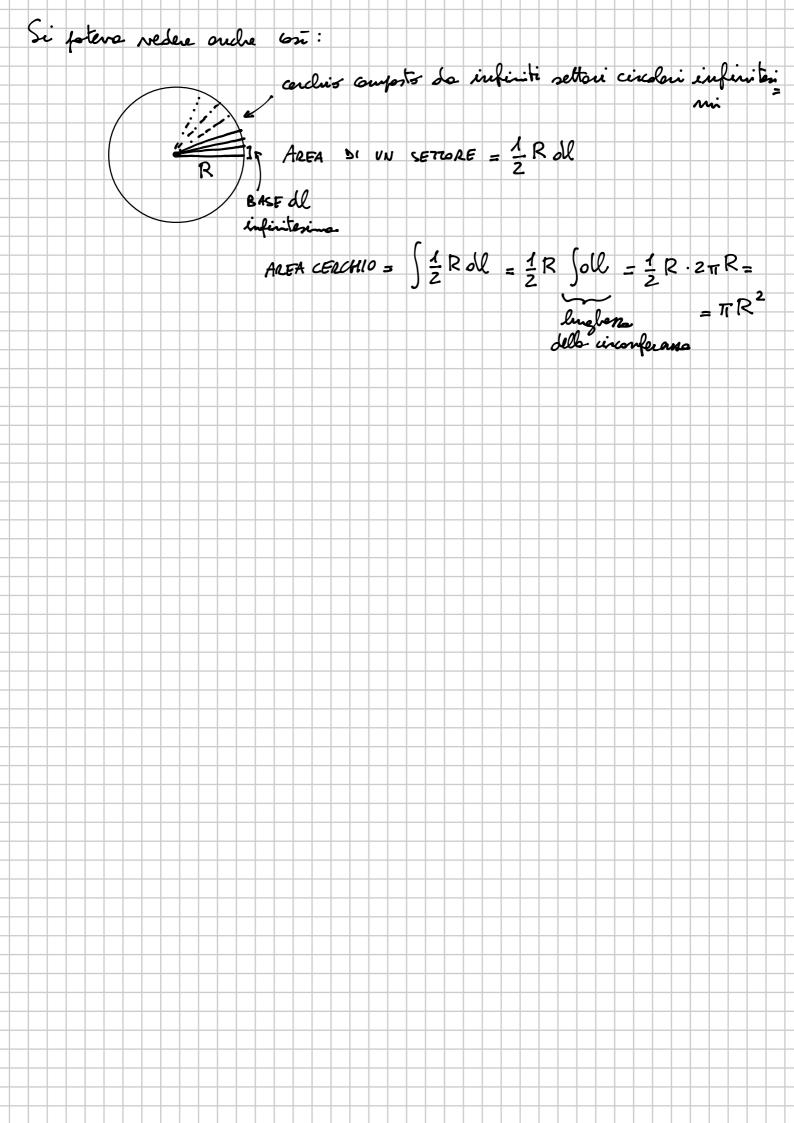
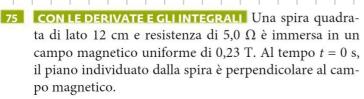
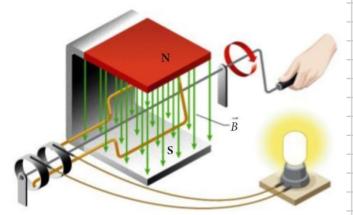
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► Calcola la carica totale che fluisce nella spira in mezzo giro, cioè tra t = 0 s e $t = \pi/\omega$.

ヒェログ

$$i(t) = \frac{1}{R} \frac{d\Phi}{dt} = -\frac{1}{R} \frac{d}{dt} (BScoswt) = \frac{BS}{R} \frac{d}{dt} (coswt) =$$

$$\Phi = \overrightarrow{B} \cdot \overrightarrow{S} = BS \cdot \omega S \omega t$$

$$= -\frac{BS}{R} (-\omega \sin \omega t) = \frac{BS}{R} (-\omega \cos \omega t) = \frac{BS}{$$

t=T

 $\omega t = \pi$

dq=idt coice che fame ottoress le setione ne temps dt

$$Q = \int dq = \int i dt = \int BSw \sin \omega t dt = \int R$$

$$= \frac{BS}{R} \int \omega \sin \omega t \, dt = \frac{BS}{R} \int (-\cos \omega t) \, dt = \frac{APRICO}{DEL} (ALCOLO)$$

$$=\frac{BS}{R}\left[-\cos\left(\omega.\frac{\pi}{\omega}\right)-\left(-\cos\left(\omega.o\right)\right)\right]=\frac{BS}{R}\left[-\cos\pi+\cos\sigma\right]=$$

$$= \frac{BS}{R} \begin{bmatrix} 1+1 \end{bmatrix} = \frac{2BS}{R} = \frac{2(0,23T)(0,12m)^2}{5,0 \Omega} = 0,0013248 C \simeq \boxed{1,3 mC}$$