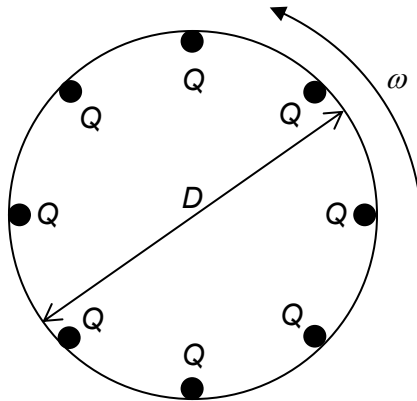


- 21 Eight small conductors of charge Q are placed at the edge of an insulating disc of diameter D . The angular frequency of rotation of the disc is ω .



What is the electric current at the edge of the disc?

A $\frac{4Q\omega}{\pi}$

B $\frac{8Q\omega}{\pi D}$

C $8Q\omega$

D $\frac{16Q\pi}{\omega}$