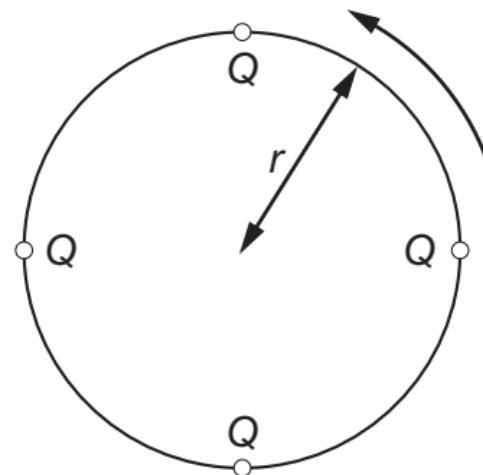


33 Four point charges, each of charge Q , are placed on the edge of an insulating disc of radius r .

The disc rotates at a rate of n revolutions per unit time.



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

A $4Qn$

B $\frac{4Q}{n}$

C $8\pi r Q n$

D $\frac{2Qn}{\pi r}$