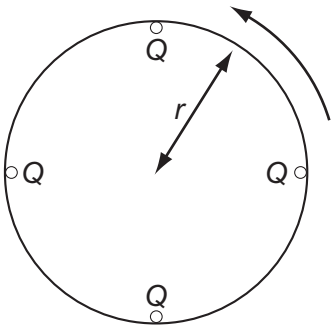


31 Four point charges, each of charge Q , are placed on the edge of an insulating disc of radius r .

The frequency of rotation of the disc is f .



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

A $4Qf$

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

C $8\pi rQf$

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

32 Which graph shows the I - V characteristic of a filament lamp?