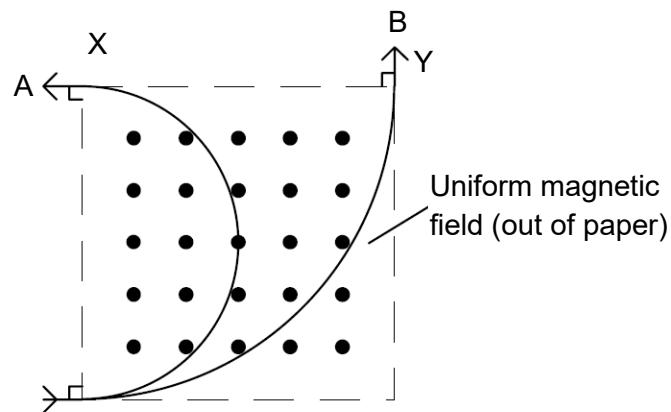


- 24** Particles A and B, both moving at the same speed, enter a square region of uniform magnetic field as shown in the figure below. Particle A leaves at X while particle B leaves at Y.



If the ratio of charge to mass of particle A is k , what is that of particle B?

A $\frac{k}{2}$

B $\frac{k}{4}$

C $2k$

D $4k$