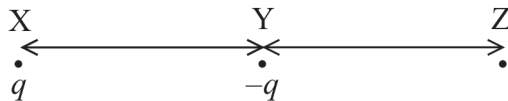


- 8 Point charges of $+q$ and $-q$ are placed at X and Y respectively.

When another charge is placed at Z, the resultant force on the charge at X is zero.

Distance XY equals distance YZ.



Which of the following is the charge placed at Z?

- ☐ A $\frac{q}{4}$
- ☐ B $\frac{q}{2}$
- ☐ C $2q$
- ☐ D $4q$

(Total for Question 8 = 1 mark)