

Problem 2) Three charges, each of value  $q$ , are placed at the corners of an equilateral triangle. A fourth charge  $Q$  is placed at the center  $O$  of the triangle. For what value of  $Q$  at  $O$  will the charges remain stationary?

- 1) 0
- 2)  $-q$
- 3)  $\frac{q}{\sqrt{3}}$
- 4)  $\frac{-q}{\sqrt{3}}$

Ans - 4