

Problem 1) Two point particles A and B having charges of  $4 \times 10^{-6}$  C and  $-64 \times 10^{-6}$  C, respectively are held at a separation of 90 cm. Locate the point(s) on the line AB or on its extension where the electric field is zero.

- 1) 40 cm from A along BA
- 2) 30 cm from B along AB
- 3) 30 cm from A along BA
- 4) 40 cm from B along AB

Ans) 3