

Problem 3) Three point charges  $q_0$  are placed at three corners of square of side  $a$ . Find out electric field intensity at the fourth corner.

1)  $\left(\sqrt{2} + \frac{1}{3}\right) \frac{kq_0}{a^2}$

2)  $\left(\sqrt{2} + \frac{1}{2}\right) \frac{kq_0}{a^2}$

3)  $\left(\sqrt{3} + \frac{1}{2}\right) \frac{kq_0}{a^2}$

4)  $\left(\sqrt{2} + \frac{1}{4}\right) \frac{kq_0}{a^2}$

Ans) 2