**PHYA21 Practice problems for Test-2 2024**

Answers or solutions are given, but you should justify your answer for better understanding and as this is what you migh be asked on tests or Exam. At the end there are several study (conceptual) questions, and you are encouraged to answer them. Good luck

**Please let me know if you discover any misprint or mistake.**

1. A charge $Q$ is uniformly spread over one surface of a very large nonconducting square elastic sheet having sides of length $d$. At a point $P$ that is 1.25 cm outside the sheet, the magnitude of the electric field due to the sheet is $E$. If the sheet is now stretched so that its sides have length $2d$, what is the magnitude of the electric field at $P$?

A) $4E$
B) $2E$
C) $E$
D) $E/2$
E) $E/4$
Answer: E

2.

Choose the correct statement: