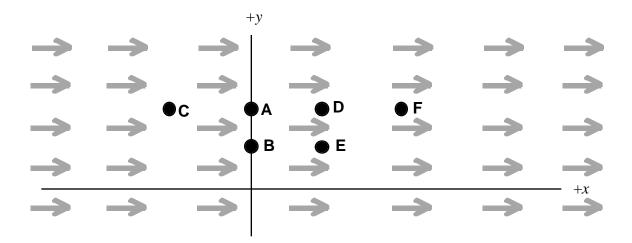
Uniform Electric Field—Electric Force on Charge at Rest II 140

We have a large region of space that has a uniform electric field in the +x direction (\Rightarrow) as indicated by the arrows in the diagram below. At the point (0,0) m, the electric field is 30 i N/C and the electric potential is 100 volts.

Rank from greatest to least the strength (magnitude) of the electric force on a +5 C charge when it is placed at rest at each of the following points.

A: (0, 6) m **B**: (0, 3) m **C**: (-3, 6) m **D**: (3, 6) m **E**: (3,3) m **F**: (6, 6) m



Greatest 1 ____ 2 ___ 3 ___ 4 ___ 5 ___ 6 ___ Least

Or, the 5 C charge will experience the same strength electric force at all of these points. _____

How sure were you of your ranking? (circle one)

 Basically Guessed
 Sure
 Very Sure

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

¹⁴⁰ C. Hieggelke