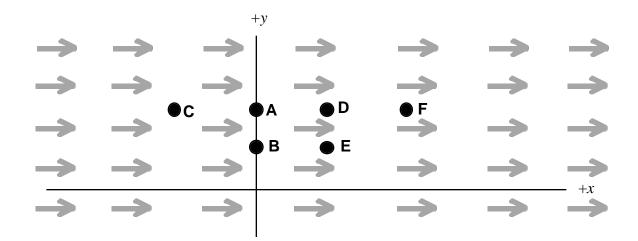
Uniform Electric Field—Electric Potential at Different Points II 153

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 the electric potential from greatest to least at the following points within this region.

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, all the points have the same electric potential. _____ Please carefully explain your reasoning.

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

 Basically Guessed
 Sure
 Very Sure

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

¹⁵³ C. Hieggelke