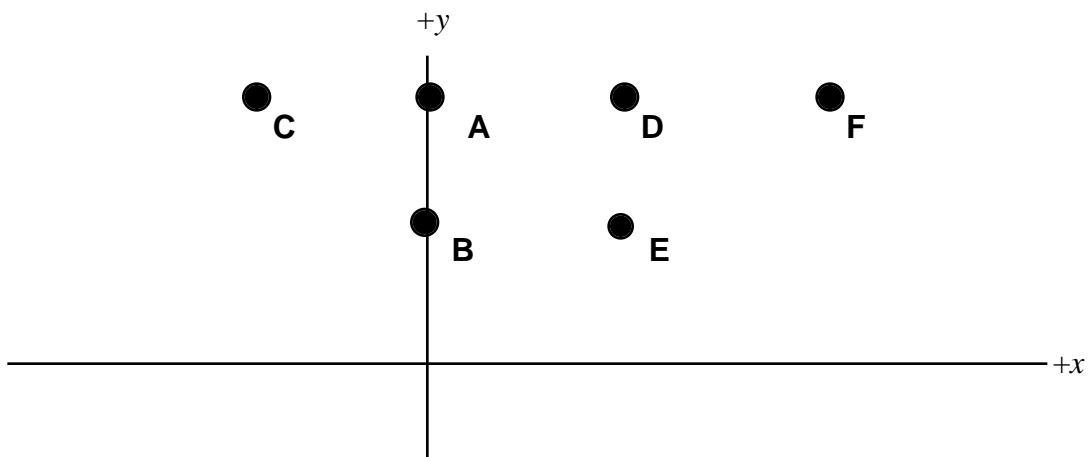


Uniform Electric Field—Strength of the Electric Field I ¹⁵⁰

We have a large region of space that has a uniform electric field in the $+x$ direction (\Rightarrow). At the point $(0,0)$ m, the electric field is $30 \mathbf{i}$ N/C and the electric potential is 100 volts.

Rank the strength (magnitude) of the electric field 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 of the points have the same electric field magnitude. _____

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

¹⁵⁰ C. Hieggelke