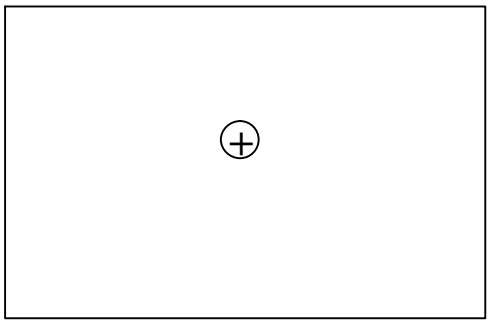
Electric Fields Worksheet

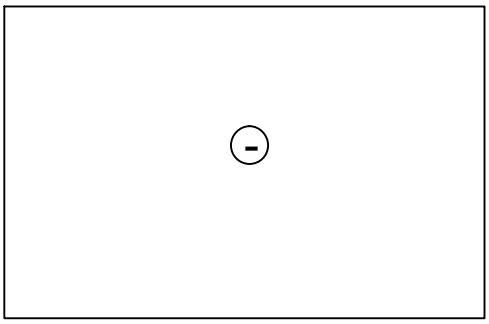
Name _____ Period ____

Draw the electric field for each of the following charges:

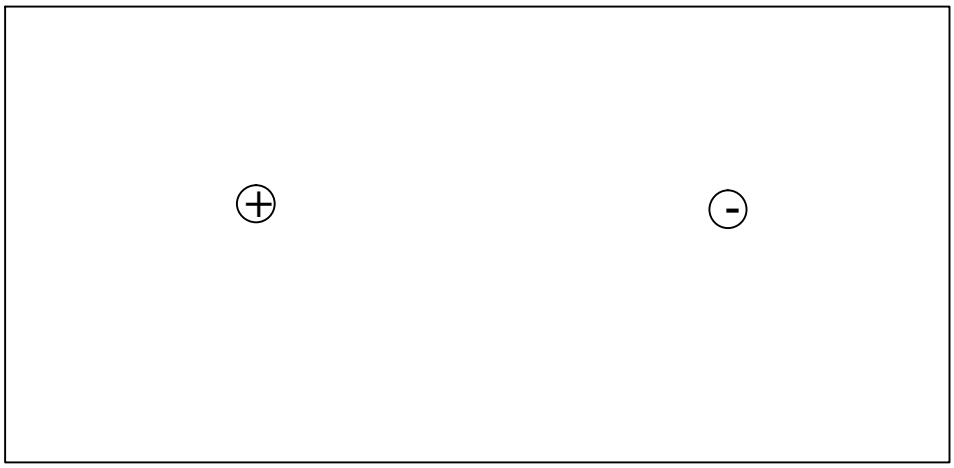
1.



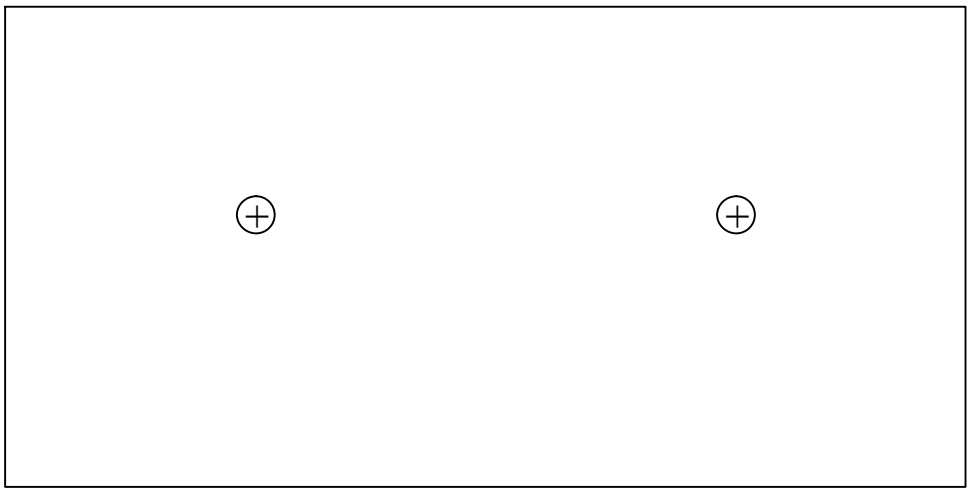
2.



3.



4.



5. If the charges in #4 were both negative, how would the diagram be changed?

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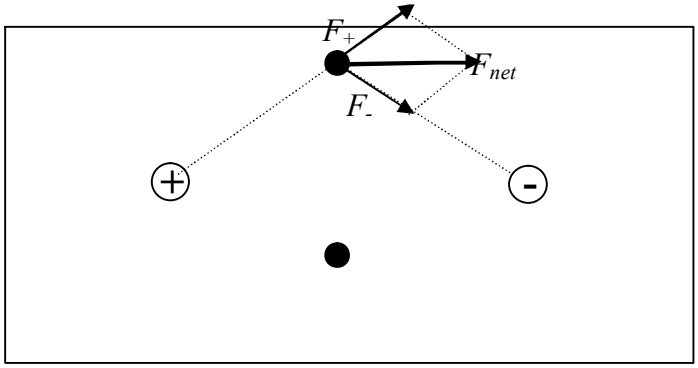
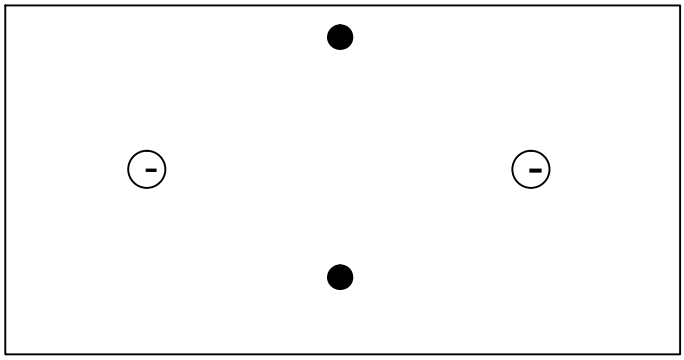
For the following diagrams, a positive test charge, shown as a black circle, has been placed at several points in the electric field of the stationary charges, shown as circles marked with + or – to indicate polarity. For each location draw force vectors to represent the forces on the test charge from each of the stationary charges. Then, by completing a parallelogram, draw the vector sum to represent the net force on the test charge at each location. The first one has been done for you. Assume the stationary charges are equal in magnitude and that the test charge has a negligible effect on the overall electric field.

6.



7.



8. For this drawing, draw the force vectors from the two positive charges and combine into one resultant vector as you did above. Then add the resultant with the force vector from the negative charge to get the net force on the test charge.