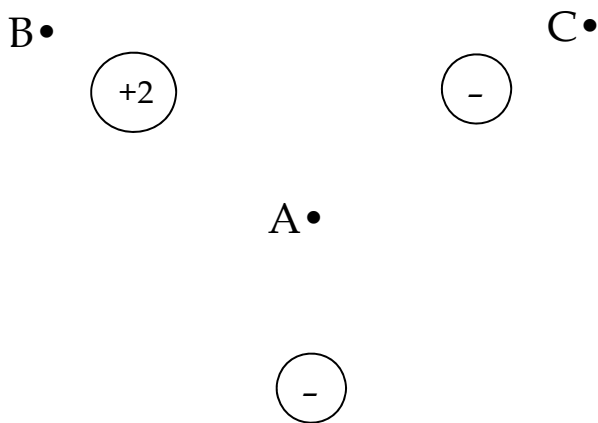
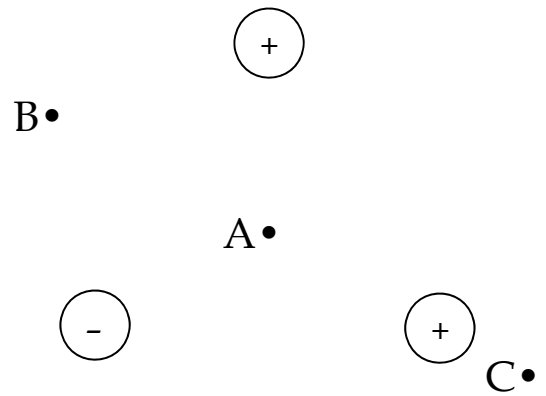
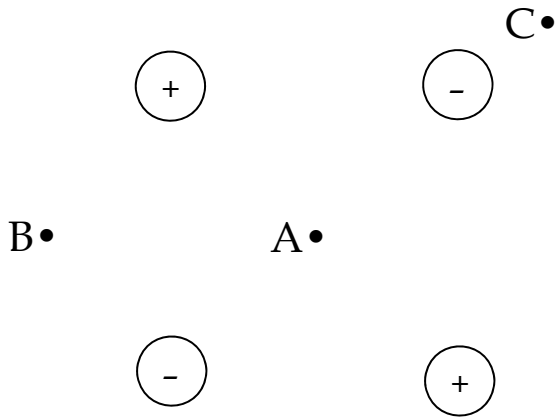
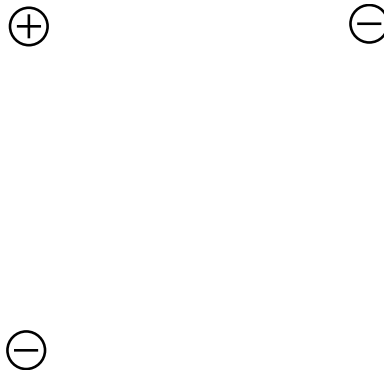


PHYSICS 1 ELECTROSTATICS – COULOMB’S LAW, ELECTRIC FIELD AND POTENTIAL

1. For each of the following sets of charges, indicate the direction of the electric field (using a vector arrow) and the “value” (+, - or 0) of the potential at points A, B and C.



2. Draw representative field lines for the following arrangement of charges.



3. Define the term *equipot* and discuss/explain the relative arrangement of field lines and equipots. Can equipots "cross"? If a charge is moved from one point on an equipot to a different point on the same equipot, how much work is done? Explain.

4. For the following arrangement of charges, what is the magnitude and direction of the force exerted by the two positive charges on the negative charge. ($1 \text{ mC} = 1 \times 10^{-3} \text{ C}$)

