



Figure 1: Field lines (blue) and equipotential surfaces (red) of a dipole [above, with positive charge  $q$  at  $(-1, 0)$ ], and of two identical charges  $q$  [below]. For each case label the equipotential surfaces and show the direction of field lines. Assume  $q = 1 \text{ nC}$  and the units of distance in the figure corresponding to  $\text{cm}$  (i.e., the distance between charges in each case is  $2 \text{ cm}$ ).