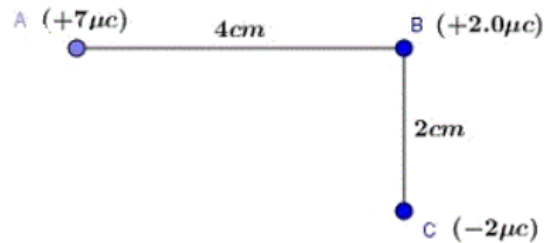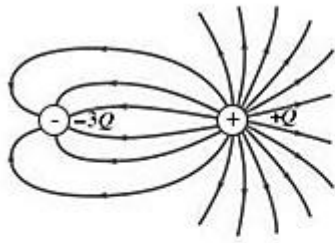# Chapter 23 Problems
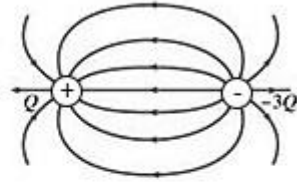
1) **What is the net force and its direction that the charges at the vertices A and C of the right triangle ABC exert on the charge in vertex B?**
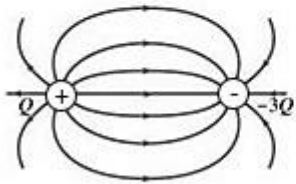

A $(+7\mu c)$ 4cm   B $(+2.0\mu c)$

2cm

C $(-2\mu c)$

2) **The distance between two charges q1 = + 2 µC and q2 = + 6 µC is 15.0 cm. Calculate the distance from charge q1 to the points on the line segment joining the two charges where the electric field is zero.**

3) **Choose the correct picture of the electric field lines about two point charges, +Q and −3Q, which are a distance apart.**
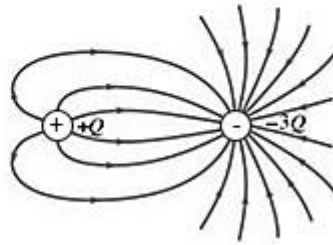
a.

b.

c.

d.