Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_\_\_\_\_

PP C – Equilibrium – p. 570

1. A charge of +2.00 x 10-9 C is placed at the origin, and another charge of +4.00 x 10-9 C is placed at x = 1.5m. Find the point between these two charges where a charge of +3.00 x 10-9 C should be placed so that the net electric force on it is zero.

1. A charge q1 of -5.00 x 10-9 C and q2 of -2.00 x 10-9 C are separated by a distance of 40.0 cm. Find the equilibrium position for a third charge of +15.0 x 10-9 C.
2. An electron is released above the Earth’s surface. A second electron directly below it exerts just enough of an electric force on the first electron to cancel the gravitational force on it. Find the distance between the two electrons?