## Electric Force Equilibrium Math Help

$$F = K \frac{q_A q_B}{r^2}$$

There are 3 point charges that lie along the x-axis. (See diagram)  $q_1$  has a charge of  $15\mu C$  and is located at x = 2 cm.  $q_2$  has a charge of 6  $\mu C$  and is located at the origin. At what point on the x-axis must a negative charge  $(q_3)$  be placed so the resulting force is zero? We will do this one IN CLASS  $F = K \frac{q_A q_B}{r^2}$ 

