

$$F = k * \frac{q' * q}{r^2} \quad (1)$$

$$F = 8.99 * 10^9 * \frac{N * m^2}{C^2} * \frac{(40C)^2}{(5000m)^2} \quad (2)$$

$$F = 5.8 * 10^5 N \quad (3)$$