

Answer on Question #84543, Physics / Electromagnetism

Question:

Two positive charges q_1 and q_2 are separated by a distance r . The charges repel each other with a force F . If the magnitude of each charge is doubled and the distance stays unchanged, what is the new force between the charges?

Solution:

Following the Coulomb's law: $F = \frac{kq_1q_2}{r^2}$, we can conclude that the new force $f = 4F$.

The answer:

The new force $f = 4F$.

Answer provided by <https://www.AssignmentExpert.com>