

Coulomb's Law Practice



$$F_e = \frac{kQ_1Q_2}{R^2}$$

1. $q_1 = q_2 = 1.6 \cdot 10^{-19} \text{ C}$
 $r = 4 \cdot 10^{-10} \text{ m}$
Find F_e

$$F_e = \frac{kq_1q_2}{r^2} = 1.44 \cdot 10^{-9} \text{ N}$$

2. $F_e = 8.9 \cdot 10^{-7} \text{ N}$
 $r = 6.2 \cdot 10^{-2} \text{ m}$
 $q_1 = 3.2 \cdot 10^{-19} \text{ C}$
Find q_2

$$q_2 = 0.0119 \text{ C}$$

3. $q_1 = 3.2 \cdot 10^{-19} \text{ C}$
 $q_2 = -4.8 \cdot 10^{-19} \text{ C}$
 $r = 3.5 \cdot 10^{-7} \text{ m}$
Find F_e

$$F_e = -1.13 \cdot 10^{-14} \text{ N}$$

4. $F_e = 7 \cdot 10^{-4} \text{ N}$
 $q_1 = 1.6 \cdot 10^{-19} \text{ C}$
 $r = 8.9 \cdot 10^{-3} \text{ m}$
Find q_2

$$q_2 = 38.5 \text{ C}$$

5. $q_1 = 3 \text{ electrons}$
 $q_2 = 2 \text{ protons}$
 $r = 4 \cdot 10^{-9} \text{ m}$
Find F_e

$$F_e = -8.64 \cdot 10^{-17} \text{ N}$$

6. $F_e = 4.3 \cdot 10^{-7} \text{ N}$
 $q_1 = q_2 = 14 \text{ electrons}$
Find r

$$r = 3.2 \cdot 10^{-10} \text{ m}$$

Coulomb Law Questions And Answers

Katrin Zwirgmaier



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