Worksheet - Coulomb's Law

1. A negative charge of - 2.0 C and a positive charge of 3.0 C are separated by 80 m. What is the force between the two charges?

2. A negative charge of - 0.0005 C exerts an attractive force of 9.0 N on a second charge that is 10 m away. What is the magnitude of the second charge?

3. Two negative charges that are both - 3.0 C push each other apart with a force of 19.2 N. How far apart are the two charges?

4. A negative charge of - 4.0 x 10^{-5} C and a posivite charge of 7.0 x 10^{-5} C are separated by 0.15 m. What is the force between the two charges?

5. A negative charge of - 8.0 x 10^{-6} C exerts an attractive force of 12 N on a second charge that is 0.050 m away. What is the magnitude of the second charge?

6. Two negative charges that are both - 5.0 x 10^{-5} C push each other apart with a force of 15 N. How far apart are the two charges?