

20 Two point charges, Q_1 and Q_2 , exert a force of 2.0 N on each other.

Q_1 is replaced by Q_3 , which has twice the charge of Q_1 , and the distance between the charges is doubled.

What is the force on Q_2 due to Q_3 ?

A 0.25 N

B 0.50 N

C 1.0 N

D 2.0 N

21 The resistance R of a length l of a uniform cylindrical wire is measured for different values of l .