

16 The centripetal force on an electron as it orbits a proton is 2.3×10^{-8} N.

The electron is 1.1×10^{-10} m from the proton.

What is the linear speed of the electron?

- A 3.9×10^4 ms $^{-1}$
- B 1.7×10^6 ms $^{-1}$
- C 1.2×10^8 ms $^{-1}$
- D 2.8×10^{12} ms $^{-1}$

17 A wire of resistance R has a length l and a circular cross-section of radius r .