27 An electron is accelerated from rest through a potential difference to achieve a final kinetic energy of 9.3×10^{-16} J.

What is the de Broglie wavelength of the electron after being accelerated through this potential difference?

A 5.1×10^{-10} m

B 1.6×10^{-11} m

C 5.1×10^{-12} m

D 3.6×10^{-19} m