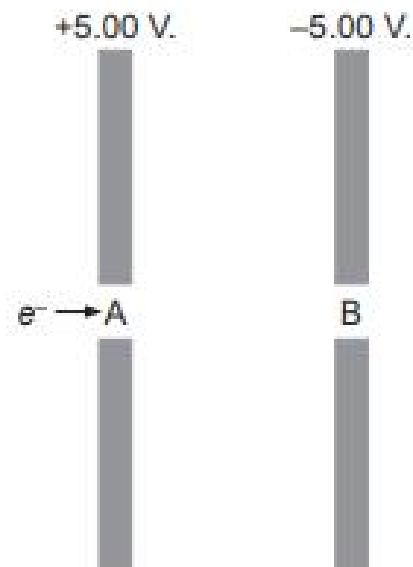


Question 9**(5 marks)**

Two parallel conducting metal plates are held at a potential difference of 10.0 V. An electron in a vacuum arrives at a small hole in the first plate at point A with 20.0 eV of kinetic energy, and travels through an electric field to B as shown in the diagram. Calculate the de Broglie wavelength of the electron as it exits at B.



Answer: _____ m