Electric Potential

1. An electron is released from rest in an electric field E = 100 V/m. Calculate the speed of the electron after it has moved 1 m.

Potential difference, kinetic energy

2. Parallel plates separated by 4 cm give an electron 25 keV of energy.
    a. What is the strength of the E field between the plates?
    b. What is the velocity of the electron after it moves through this potential difference?