

In the 1. midterm we have derived how to accelerate a charged particle. Given that we accelerate an electron ($q=1.6 \cdot 10^{-19}\text{C}$, $m=9.1 \cdot 10^{-31}\text{kg}$) with a parallel plate capacitor at, what would be the final speed of the electron after leaving the capacitor?

(tip: compare kinetic and electric potential energy of an electron)

