Electric Potential Difference: Work done moving a positive charge from two points within an electric field

1V=

Milikan’s Oil drop Experiment

This is the experiment that determined the charge of an electron. Milikan was able to create an electric field using voltage and by using parallel plates. It looks like this.

By controlling the voltage and distance, Milikan could control the Electric field, and was able to determine the electric charge of an electron. As well, he was able to find the mass of an electron.

Example: What is the charge that is suspended in a 2mm parallel plate that has a voltage of 80V and a mass of 2g?