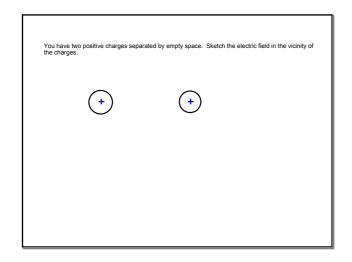
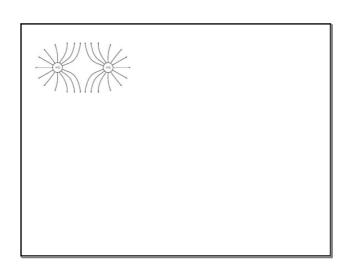
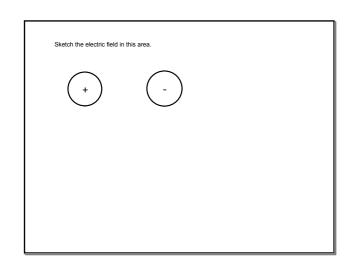


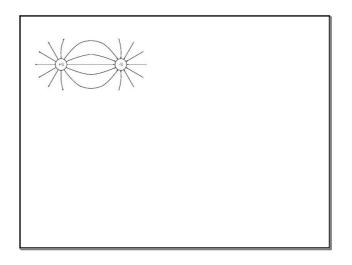
Apr 19-9:20 PM Apr 19-9:44 PM





Apr 19-9:45 PM Apr 19-9:32 PM





Apr 19-9:47 PM Apr 19-9:33 PM

1



Let's say I move a charge from one point to another. If I am moving it against an electric field I have to do work.

Potential difference (V)
V = work done/charge moved

V = W/q

Apr 19-9:39 PM Apr 25-6:38 PM







This is a 9 Volt battery. Every coulomb of charge moving through the battery gains 9 Joules of energy.



The standard house outlet in the USA provides about 110 volts.



110 volts can be dangerous!

Apr 25-6:44 PM Apr 25-6:48 PM



This special outlet supplies 220 volts to an electric dryer or electric range.



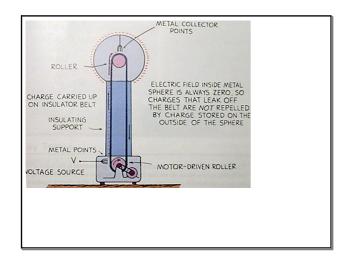
220 volts can be even more dangerous!

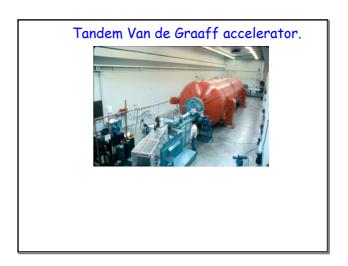


Van de Graaff generator generates very high voltages.

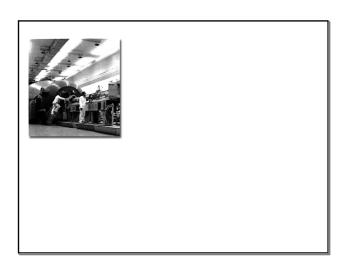
Apr 25-6:52 PM Apr 25-7:08 PM

2





Apr 29-7:21 PM Apr 25-7:11 PM



Apr 25-7:16 PM