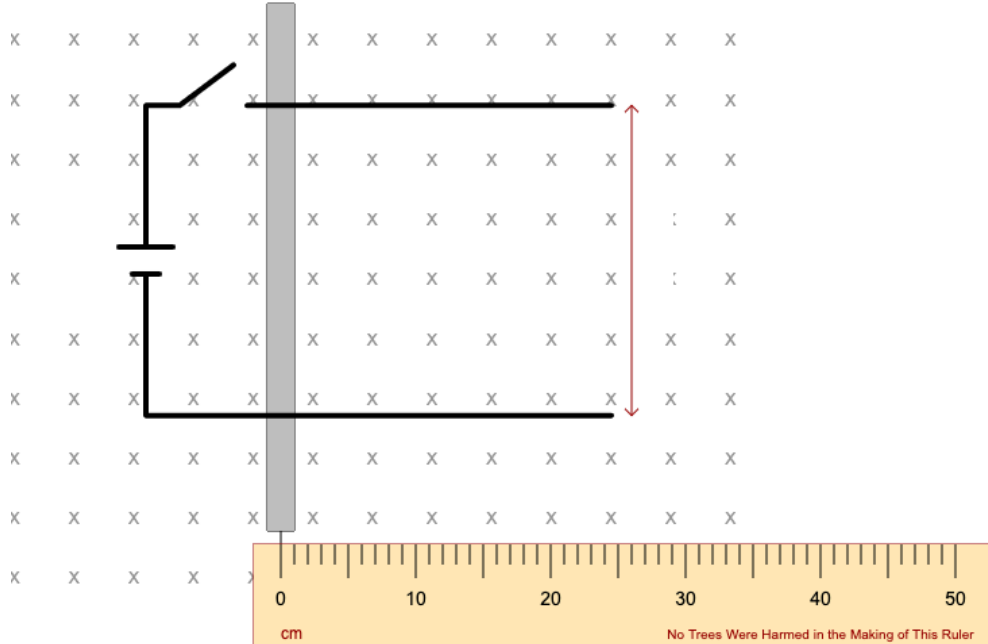


Rail Gun Problem

Step 1: In the picture below extend the rails to the length they are in your program. Then fill in all the variables for your system



Step 2: Calculate the current through the metal bar. Show your work neatly below

Step 3: Calculate the magnetic force on the bar and assuming the system has negligible friction, determine the acceleration of the bar. Show both calculations neatly below

Step 4: Calculate the speed of the metal bar when it reaches the end of your rails. Show your work below and then put your answers in your program to make sure you did everything properly