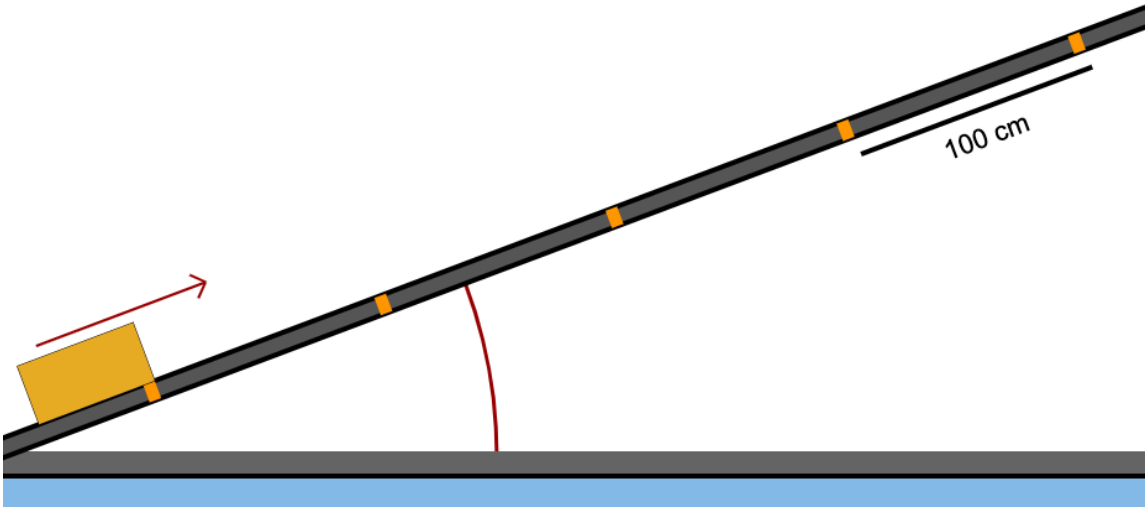
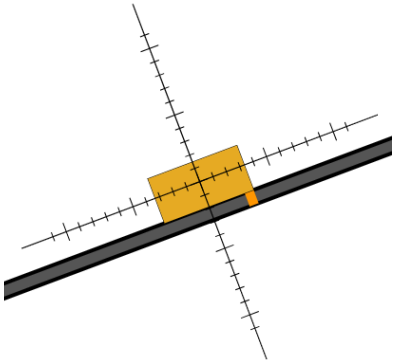
Motion on Incline Level 2

Step 1: Below is a picture of your block on an inclined plane on a planet other than Earth. Fill into the picture the mass on your block, the starting velocity of the block, the gravitational field (acceleration) of the planet, the coefficient of friction between your surfaces, and the angle of your incline



Step 2: Draw in all your forces. Break gravity into its components. Calculate the value of all forces and components that are shown in the picture. Show you work below



Step 3: Find the net force down the incline and then use your motion equations for constant acceleration to get the time it will take your block to momentarily stop and the distance it will travel up the incline. Enter the answers into your program to make sure you did everything correctly