Motion on Incline Level 1

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



Step 2: Determine the component of the acceleration of gravity along your incline. Show you work below



Step 3: Use your motion equations for constant acceleration to get the time it will take your cart 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