Prelab 13

Imagine a spring launcher which will propel a cart along a horizontal incline. The launcher has a spring with a force constant of 50N/m. The mass of the cart is $0.8 \pm 0.005\ kg$. When the spring is compressed 5 cm, and released, the cart travels $121 \pm 1\ cm$ on the horizontal track. When the track is inclined at 4 degrees, how far up the incline will the cart travel?