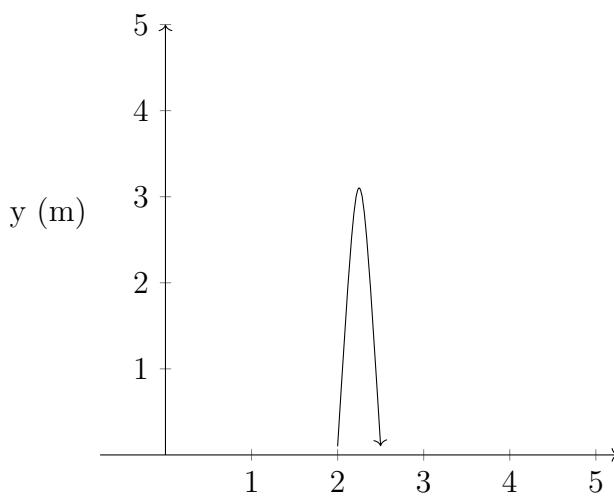


0.1 Formulas

Up/Down motion:

$$y_f = y_0 + v_0(\Delta t) + \frac{1}{2}a(\Delta t^2) \quad (1)$$



Motion on an Incline:

$$\sin \theta = \frac{a_s}{g} \quad \cos \theta = \frac{a_n}{g} \quad (2)$$

0.1.1 Key

v = velocity, meters/second

y = height, meters

t = time, seconds

a = acceleration, meters/second²

g = standard earth acceleration: 9.8m/s^2