Aprendizagem 2023
Homework I – Group 003
(ist1107028, ist1107137)

Part I: Pen and paper

1. Question summary can go here.

   (a) Place your solution. Math can be entered using the equation environment

   $$\vec{\mathbf{r}} = \vec{\mathbf{r}}_0 + \vec{\mathbf{v}}_0 t + \frac{1}{2}\vec{\mathbf{a}} t^2 \tag{1}$$

   If you then where working in say the x-direction and had some numbers

   $$\begin{aligned} x &= x_0 + v_{x0}t + \tfrac{1}{2}a_x t^2 \\ &= 1.2\text{ m} + (4.0\text{ m/s})(3.0\text{ s}) + \tfrac{1}{2}(-1.0\text{ m/s}^2)(3.0\text{ s})^2 \\ &= \boxed{8.7\text{ m}} \end{aligned} \tag{2}$$

   (b) When you get to the next part, you can add a `\item` to get the appropriate label. Also, if you don't like all the equation numbers, you can use the following to have the equation with no number

   $$\sum \vec{\mathbf{F}} = m\vec{\mathbf{a}}$$

   (c) For more details on putting math into LaTeX documents you can see this page on Overleaf.

2. We you get to the next problem, you can end the enumerate for the parts of the previous problem and then add another item.

   (a) Use a nested enumerate environment to label the parts of the next problem.

   (b) For a quick and broad overview of how to create documents in LaTeX see this quick tutorial from Overleaf.

Part II: Programming

3. Solution to the programming questions here.

End note: do not forget to also submit your Jupyter notebook