Aprendizagem 2024 Homework I – Group xxx (istxxxxxx, istxxxxxx)

Part I: Pen and paper

- 1. Question summary can go here.
 - (a) Place your solution. Math can be entered using the equation environment like this

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

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

$$x = x_0 + v_{x0}t + \frac{1}{2}a_xt^2$$

$$= 1.2 \text{ m} + (4.0 \text{ m/s})(3.0 \text{ s}) + \frac{1}{2}(-1.0 \text{ m/s}^2)(3.0 \text{ s})^2$$

$$= \boxed{8.7 \text{ m}}$$
(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