A Fun Template

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Conventions

 \mathbb{F} denotes either \mathbb{R} or \mathbb{C} .

 \mathbb{N} denotes the set $\{1, 2, 3, ...\}$ of natural numbers (excluding 0).

1 Force

Definition 1.1. The **centre of gravity** of an object is the point at which the weight of the object *appears* to act.

1.1 Newton's Laws of Motion

Definition 1.2. The following are Newton's 3 laws:

- 1. A body stays ar rest or continues to move with a constant speed in a *straight* line unless acted upon by a **net** external force.
- 2. The rate of change of linear momentum of a body is directly proportional to the resultant force acting on it and is in the direction of the resultant force.

3.

A Bonus Material

The talign and talign* environments work like the align and align* environments, except they render equations in inline size. For example, \begin{align*}...\end{align*} yields:

$$\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$$

While <text> yields:

$$\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$$

As usual, the purpose of * is to prevent numbering of the equation.

Some commands, like \sumn, can be used with or without a starting value (the default starting value is 1). For example, $\sum_{n=0}^{\infty} \frac{1}{n^2}$, while $\sum_{n=0}^{\infty} \frac{1}{n^2}$. This can be used in inline mode as well as display mode.