

# Template

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2024-03-23

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## 1. section

### 1.1. Basics

**Definition 1.1.1.:** Write a definition. 定義を書いてください。

Definition 1.1.1. can be referred by using `@def`.<sup>1</sup>

Example 1.1.1. (Example name): Write an example

**Definition 1.1.2.:** 2nd definition

**Theorem 1.1.1 (Euclid):** There are infinitely many primes.

Proof: Write a proof.

$$y = ax \tag{1}$$

You can refer to an equation using `@name` like Eq 1. □

**Lemma 1.1.1 (Ito lemma):**

**Corollary 1.1.1:** Put a corollary.

**Requirement 1.1.1:** For every object, its motion keeps linear uniform motion.

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<sup>1</sup>This is a footnote.

Result 1.1.1:  $ma = F$

Theorem 1.1.2: There are arbitrarily long stretches of composite numbers.

Proof: For any  $n > 2$ , consider

$$n! + 2, \quad n! + 3, \quad \dots, \quad n! + n \quad (2)$$

□

Theorem 1.1.3: Unicode can be used, e.g.,  $\mu = \mu$ .  
For more details for math symbols, see [HERE](#)

We can cite like: [1]–[3]

## 1.2. How to insert a figure

図 1 shows a pigeon flying in the sky.

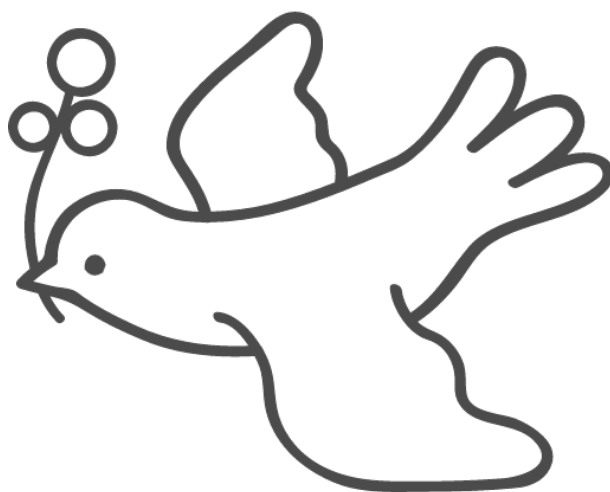


図 1: A pigeon flying

表 1: Timing results

| t | 1    | 2    | 3    |
|---|------|------|------|
| y | 0.3s | 0.4s | 0.8s |

## References

[1] ポアンカレ, 科学と仮説. 岩波書店, 2021.

- [2] H. Poincaré, *La science et l'hypothèse*. Flammarion, 1908.
- [3] P. Atkins と J. de Paula, *Physical Chemistry for the Life Sciences*. OUP Oxford, 2011.