Miscellaneous Notes

Raymond Bian

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Contents

1 Testing sections

Lecture 1: Preamble Tinkering

Hi, this is just a test of my latex preamble for this upcoming semester.

1 Testing sections

Theorem 1. This is a theorem

Proof. And here is its proof

Corollary. This is a corollary

This is the periodic table noble gas is stable halogens and alkali react aggresively.

Sometimes, you are wrong.

$$\sum_{n=1}^{10} e^{x} \frac{d/V}{dx}.$$

Below is a sample figure that that shows how figures look in the new two column mode.

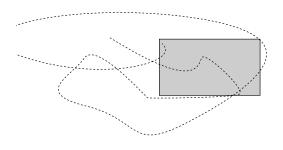


Figure 1: Sample Figure 1

Example. Here is an example.

Explanation. And here is its explanation.

Hi Hi Ho.

Definition 1. Here is a definition of a word

Property. Hi Hi Hi

Hi

this text is bold

Hello Hello

Exercise 1

Hi

Exercise 1.a

What is the answer to everything? HIHIHIH

Lecture 2: Snippet Test

$$\forall \exists \subset \cup \setminus \\ \leq \geq \leq \leq \\ \sum_{i=0}^{n} 2^{i} \\ \frac{1+x}{x} \\ (1+x)/x \\ \binom{10}{0}$$

Lecture 3: More Snippet

 \mathbb{E}

Note by inspection that

$$f(n) = \left(1 - \binom{n}{n-1}\right) f(n-1).$$

Solving this recurrence relation gives

$$f(n) = (-1)^{i} \binom{n-1}{3}.$$