

Hello Everyone,

Welcome to AP Calculus AB! To help us stay on track to complete the full course before the AP Exam in May, you will be responsible for learning **Unit 1** over the summer.

Each section of the unit includes:

- A video lesson
- Guided notes to complete while watching the video
- Practice problems to reinforce your understanding

An answer key will be provided so you can check your work and identify any areas of confusion. If you find that you need more clarification on a topic, **please feel free to email me at any time** over the summer.

When we return to school, we will spend the first 2–3 days reviewing Unit 1 and preparing for the Chapter 1 Test, which will be given at the end of that first week.

Please do not leave this assignment until the last minute. It's a significant amount of material, but completely manageable if spread out over the summer.

I'm excited to work with you all and look forward to seeing you in September!

Best,

Mrs. Russo

1.1 The Concept of Instantaneous Rate of Change

- [1.1 The Concept of Instantaneous Rate of Change Video](#)
- [1.1 Rates of Change Notes](#)
- [1.1 Rates of Change Practice](#)
- [1.1 Rates of Change Practice Key](#)

1.2 Understanding Limits Graphically and Numerically

- [1.2 Understanding Limits Graphically and Numerically Video](#)
- [1.2 Understanding Limits Notes](#)
- [1.2 Understanding Limits Practice](#)
- [1.2 Understanding Limits Practice Key](#)

1.3 Properties of Limits

- [1.3 Properties of Limits Video](#)
- [1.3 Properties of Limits Notes](#)
- [1.3 Properties of Limits Practice](#)
- [1.3 Properties of Limits Practice Key](#)

1.4 Limits of Composite Functions

- [1.4 Limits of Composite Functions Video](#)
- [1.4 Limits of Composite Functions Notes](#)
- [1.4 Limits of Composite Functions Practice](#)
- [1.4 Limits of Composite Functions Practice Key](#)

1.5 Finding Limits Analytically

- [1.5 Finding Limits Analytically Video](#)
- [1.5 Finding Limits Analytically Notes](#)
- [1.5 Finding Limits Analytically Practice](#)
- [1.5 Finding Limits Analytically Practice Key](#)

1.6 Limits of Transcendental Functions

- [1.6 Limits of Transcendental Functions Video](#)
- [1.6 Limits of Transcendental Functions Notes](#)
- [1.6 Limits of Transcendental Functions Practice](#)
- [1.6 Limits of Transcendental Functions Practice Key](#)

1.7 Limits and Continuity

- [1.7 Limits and Continuity Video](#)
- [1.7 Limits and Continuity Notes](#)
- [1.7 Limits and Continuity Practice](#)
- [1.7 Limits and Continuity Practice Key](#)

1.8 Infinite Limits and Limits at Infinity

- [1.8 Infinite Limits and Limits at Infinity Video](#)
- [1.8 Infinite Limits and Limits at Infinity Notes](#)
- [1.8 Infinite Limits and Limits at Infinity Practice](#)
- [1.8 Infinite Limits and Limits at Infinity Practice Key](#)

1.9 Intermediate Value Theorem

- [1.9 Intermediate Value Theorem Video](#)
- [1.9 Intermediate Value Theorem Notes](#)
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- [1.9 Intermediate Value Theorem Practice Key](#)