

UNDERSTANDING ANALYSIS ACROSS GENRES 5TH GRADE File PDF

Understanding analysis across genres 5th grade is an important step in developing critical thinking and reading comprehension skills. At this stage, fifth-grade students are beginning to explore different types of texts, such as stories, poems, articles, and plays. Learning how to analyze these various genres helps students understand the purpose, features, and key elements of each type of writing. This article will guide educators, parents, and students through the essentials of analyzing texts across genres in 5th grade, emphasizing how to recognize differences, identify key features, and develop analytical skills.

What is Genre in Literature?

Defining Genre

Genre refers to the category or type of a piece of writing or art. It helps readers understand what to expect and how to interpret the content. Genres can be based on the style, form, or content of the work. Common literary genres include fiction, nonfiction, poetry, drama, and informational texts.

Examples of Different Literary Genres

- Fiction (stories, novels, fairy tales)
- Poetry (haikus, sonnets, free verse)
- Drama (plays, scripts)
- Informational/Nonfiction (articles, reports, biographies)
- Persuasive texts (ads, speeches)

Understanding these genres helps students identify the purpose of each piece and practice different analytical approaches suitable for each type.

Why Analyzing Across Genres Matters in 5th Grade

Analyzing texts across genres helps students:

- Recognize different writing styles and features
- Develop critical thinking skills

- Understand the author's purpose and message
- Make connections between various texts and real-world experiences
- Improve reading comprehension and vocabulary

By exploring multiple genres, students learn to appreciate diverse forms of expression and become more versatile readers and writers.

Key Elements to Focus on When Analyzing Different Genres

To analyze effectively, students should pay attention to specific features and elements unique to each genre.

Analyzing Fiction

- Plot: What happens in the story? Identify the beginning, middle, and end.
- Characters: Who are the main characters? What are their traits and roles?
- Setting: Where and when does the story take place?
- Theme: What is the main message or lesson?
- Point of View: Who is telling the story? First person or third person?
- Conflict: What problem or challenge do the characters face?

Analyzing Poetry

- Theme: What is the poem about? What message does it convey?
- Form and Structure: Is it a haiku, free verse, couplet? How is it organized?
- Language and Word Choice: Are there rhymes, metaphors, similes?
- Sound Devices: Rhythms, rhyme schemes, alliteration, onomatopoeia.
- Imagery: What pictures or sensations are created by the words?

Analyzing Drama (Play or Script)

- Characters and Dialogue: Who are the characters? What do they say?
- Setting: Where is the story happening? How is the setting indicated?
- Plot: What is the main story or conflict?
- Stage Directions: Instructions for actors and scene changes.
- Theme: What moral or message is the play conveying?

Analyzing Informational Texts

- Main Idea: What is the main point the author wants to share?
- Supporting Details: Facts, examples, or explanations that support the main idea.
- Text Features: Headings, subheadings, captions, diagrams, charts.
- Vocabulary: Key words and their meanings.
- Purpose: To inform, explain, or describe.

Strategies for Teaching and Learning Analysis in 5th Grade

Engaging fifth graders in analysis requires targeted strategies that make the process accessible and meaningful.

Use Graphic Organizers

Graphic organizers help students visually break down complex information. Examples include:

- Plot diagrams for stories
- Venn diagrams for comparing genres
- Concept maps for themes
- Poetry analysis charts

Ask Guiding Questions

Encourage students to think critically by asking questions such as:

- What is the main idea of this text?
- What features tell me this is a poem/story/article?
- Why did the author choose this particular genre?
- What message is the author trying to send?

Practice Close Reading

Have students read passages carefully, highlighting key features, and discussing their observations. This promotes deeper understanding.

Compare and Contrast Genres

Students can analyze two texts?such as a poem and a story?by looking at their features, structures, and purposes. This helps reinforce genre characteristics.

Incorporate Discussions and Group Work

Collaborative analysis allows students to share perspectives, clarify ideas, and deepen understanding.

Activities to Enhance Genre Analysis Skills

Here are some practical activities suited for 5th-grade learners:

- **Genre Sorting:** Provide various texts and have students classify them into genres, then justify their choices.
- **Genre Feature Charts:** Create charts listing features of each genre, and have students find examples in texts.
- **Story and Poem Comparison:** Analyze a story and a poem with similar themes to see how each genre approaches the topic differently.
- **Author's Purpose Writing:** After analyzing a text, students write their own piece in the same genre with a clear purpose.
- **Creative Genre Projects:** Have students create their own stories, poems, or plays, applying genre features they've learned.

Assessment and Reflection

Assessment in genre analysis can include:

- Comprehension questions focusing on genre features
- Graphic organizers filled out during reading
- Oral presentations analyzing a text
- Written reflections on what was learned about each genre

Reflection encourages students to articulate their understanding and recognize how genre influences meaning and style.

Conclusion: Building Critical Readers in 5th Grade

Understanding analysis across genres in 5th grade is a foundational skill that empowers students to become thoughtful, critical readers. By recognizing the unique features and purposes of different genres, engaging with a variety of texts, and practicing analytical strategies, fifth graders develop a deeper appreciation for literature and informational texts alike. These skills not only enhance their current academic performance but also prepare them for more advanced literacy studies in middle

school and beyond. Encouraging curiosity and critical thinking about genres fosters a lifelong love for reading and learning.

Understanding Analysis Across Genres 5th Grade

In the exciting world of reading, students often encounter many types of texts?stories, poems, informational articles, and more. But have you ever wondered what it really means to analyze these different genres? Understanding analysis across genres in 5th grade is a vital skill that helps students become more thoughtful readers and confident thinkers. It involves learning how to look closely at various types of writing, identify their unique features, and understand what the author is trying to communicate. This article will guide you through the basics of analyzing different genres, why it's important, and how 5th graders can develop these skills with ease and confidence.

What Is Literary and Informational Genres?

Before diving into analysis, it's important to understand what genres are. In literature and informational texts, genres are categories or types of writing that share common features and purposes.

Literary Genres

Literary genres include stories that entertain, inspire, or evoke emotions. Common types are:

- Fiction: Stories created from the imagination, like novels, short stories, or fairy tales.
- Poetry: Expressive writing that uses rhythm, rhyme, and imagery to evoke feelings.
- Drama: Plays or scripts meant to be performed, featuring dialogue and stage directions.
- Myths and Legends: Traditional stories explaining natural phenomena or cultural beliefs.

Informational Genres

Informational genres aim to educate or inform readers about real-world topics. Examples include:

- Articles: Short pieces in newspapers or magazines.
- Explanations and How-To Guides: Step-by-step instructions or descriptions.
- Biographies: Stories about a person's life.
- Reports and Encyclopedic Entries: Factual summaries about topics like animals, planets, or historical events.

Understanding these genres helps students recognize what kind of text they are reading and what to

expect from it.

The Importance of Analyzing Genres in 5th Grade

Why should 5th graders learn to analyze genres? Here are some key reasons:

- Enhances Comprehension: Knowing the genre helps students understand the purpose and main ideas more easily.
- Builds Critical Thinking Skills: Analyzing features encourages students to think deeply about what they read.
- Prepares for Future Reading: Early genre analysis prepares students for more complex texts in middle and high school.
- Encourages Appreciation for Different Types of Writing: Recognizing the unique qualities of each genre fosters a love for reading.

By mastering genre analysis, students become more active and engaged readers, able to connect ideas across different types of texts.

How to Analyze Different Genres: Strategies for 5th Graders

Analyzing genres may seem challenging at first, but with some simple strategies, 5th graders can develop strong skills. Here are steps and tips tailored to young readers:

1. Identify the Genre

Start by asking:

- Is this a story, poem, article, or report?
- What clues in the text tell me its genre? (e.g., rhyme in poetry, pictures in a storybook, headings in a report)

Understanding the genre sets the stage for deeper analysis.

2. Observe the Features and Structure

Different genres have specific features:

- Fiction: Has characters, setting, plot, conflict, and resolution.

- Poetry: Uses lines, stanzas, rhyme, rhythm, and imagery.
- Informational Texts: Use headings, subheadings, diagrams, facts, and definitions.
- Drama: Contains dialogue, stage directions, acts, and scenes.

Encourage students to look for these features as clues to understand the purpose of the text.

3. Notice the Language and Style

Language tells a lot about a genre:

- Is the language formal or casual?
- Does the writer use descriptive words or facts?
- Are there poetic devices like similes or metaphors?

Analyzing language helps reveal the tone and mood of the text.

4. Understand the Author's Purpose

Ask:

- Why did the author write this? To entertain, inform, persuade, or explain?
- How does the genre help achieve this purpose?

For example, a fairy tale aims to entertain and teach a moral, while an article aims to inform.

5. Summarize and Connect

After analyzing features, students should be able to:

- Summarize the main idea.
- Connect the genre's features to its purpose.
- Think about how the genre influences the way information or stories are presented.

This process deepens understanding and makes reading more meaningful.

Practical Activities to Develop Genre Analysis Skills

Engaging activities make learning about genres fun and effective. Here are some ideas:

- Genre Sorting: Provide a collection of texts and ask students to sort them into categories (stories, poems, articles, etc.). Discuss why each belongs to its genre.
- Feature Hunt: Have students identify features in a given text (e.g., rhyme scheme in a poem, headings in an informational article).
- Compare and Contrast: Pick two genres on the same topic (e.g., a poem about animals and an informational article) and analyze how each presents information differently.
- Create Your Own Genre: Students can write their own short story, poem, or report, applying what they've learned about genre features.
- Reading Journals: Keep a journal where students note features they observe in different texts and reflect on how these features help convey meaning.

These activities reinforce genre recognition and analysis skills in an engaging way.

Supporting 5th Graders in Genre Analysis

Teachers and parents can support students by:

- Providing diverse texts from various genres.
- Asking guiding questions about the features and purpose of each text.
- Encouraging discussions about why authors choose certain styles and structures.
- Modeling analysis by thinking aloud while reading aloud.
- Giving feedback and praise as students practice their skills.

Creating a classroom environment rich in different genres fosters curiosity and confidence in young readers.

Conclusion: Building a Foundation for Lifelong Reading

Understanding analysis across genres in 5th grade is more than just a school skill; it's a foundation for lifelong learning and enjoyment. When students learn to identify features, understand purposes, and appreciate the differences among genres, they become more thoughtful, independent readers. These skills help them not only excel academically but also develop a deeper appreciation for the rich variety of texts they encounter every day. With practice, curiosity, and guidance, 5th graders can master genre analysis and unlock the full potential of their reading adventures.

Question What does it mean to analyze a story or text? Analyzing a story means looking closely at its parts, like the characters, setting, and main idea, to understand it better. Why is it important to understand different genres in reading? Understanding genres helps us know what to expect from a story, like whether it's a funny story, a poem, or a mystery, making reading more fun and easier. How can I tell the difference between a poem and a story? Poems often have rhymes

and a musical feel, while stories have characters and a storyline that tell us about something happening. What should I look for when analyzing a non-fiction text? When analyzing non-fiction, look for facts, main ideas, and details that explain real information about a topic. How can I compare two different genres, like a fairy tale and a science article? You can compare them by looking at their purpose, characters or facts, and how they tell their stories or share information. What questions should I ask myself when analyzing a story? Ask questions like: Who are the characters? What is the main problem? What lesson or message does it teach? How does understanding genre help me become a better reader? Knowing the genre helps you know what to expect, which makes it easier to understand the story and enjoy reading. What is the main idea in a story, and how do I find it? The main idea is what the story is mostly about. You find it by looking at the big picture and the most important details. Why do authors choose different genres for their stories? Authors choose different genres to share their ideas in the best way, whether to make you laugh, think, or learn something new. How can I practice analyzing texts across genres? You can practice by reading different types of texts, asking questions about them, and thinking about what makes each genre special.

Related keywords: literature analysis, genre characteristics, reading comprehension, text features, literary genres, narrative structure, author's purpose, story elements, genre comparison, age-appropriate reading

INTRODUCTION TO ANALYSIS

Introduction to Analysis

Analysis is a foundational branch of mathematics that deals with understanding the behavior of functions, sequences, and structures through rigorous methods. It forms the backbone of many scientific disciplines, including physics, engineering, economics, and computer science. Whether you're exploring the limits of a function, examining the convergence of a series, or studying the properties of geometric objects, analysis provides the tools needed to delve deep into the mathematical universe. This comprehensive guide introduces the core concepts, historical development, and applications of analysis, serving as an essential resource for students and professionals alike.

What is Analysis?

Analysis, often referred to as mathematical analysis, is the study of limits, continuity, derivatives, integrals, and infinite processes. It is concerned with understanding and formalizing the concepts of change and accumulation, which are fundamental in modeling real-world phenomena.

Historical Background of Analysis

The origins of analysis trace back to the 17th century with the development of calculus by Isaac Newton and Gottfried Wilhelm Leibniz. Their groundbreaking work introduced the fundamental ideas of differentiation and integration. Over time, mathematicians formalized these concepts, leading to the rigorous foundations of analysis in the 19th century, primarily through the work of Augustin-Louis Cauchy, Karl Weierstrass, and others.

Core Objectives of Analysis

- To understand the properties of functions and sequences
- To rigorously define limits, continuity, derivatives, and integrals
- To analyze the behavior of mathematical systems under various operations
- To provide tools for solving real-world problems involving change and accumulation

Branches of Analysis

Analysis is a broad field with several interconnected branches, each focusing on different aspects of mathematical concepts.

Real Analysis

Real analysis deals with real numbers and real-valued functions. It explores the properties of sequences, series, limits, continuity, differentiation, and integration in the context of real numbers.

Complex Analysis

Complex analysis studies functions of complex variables. It involves the analysis of holomorphic functions, complex integration, and conformal mappings, with applications in physics and engineering.

Functional Analysis

This branch extends the ideas of analysis to infinite-dimensional spaces. It involves the study of function spaces, operators, and their properties, crucial in quantum mechanics and signal processing.

Fourier and Harmonic Analysis

Focuses on representing functions as sums or integrals of sinusoidal functions. It is fundamental in

signal processing, acoustics, and image analysis.

Fundamental Concepts in Analysis

Understanding analysis requires familiarity with several foundational concepts that underpin the entire discipline.

Limits and Continuity

- Limit: Describes the behavior of a function as the input approaches a specific point.
- Continuity: A function is continuous if small changes in input lead to small changes in output.

Formally, a function f is continuous at a point c if $\lim_{x \rightarrow c} f(x) = f(c)$.

Differentiation

Differentiation measures how a function changes at a point. The derivative $f'(x)$ indicates the slope of the tangent line to the graph of f .

Integration

Integration accumulates quantities such as area under a curve. The definite integral $\int_a^b f(x) dx$ computes the accumulation of f from a to b .

Sequences and Series

- Sequences: Ordered lists of numbers that approach a limit.
- Series: Sum of the terms of a sequence. Convergence or divergence of series is a central topic in analysis.

Key Theorems and Principles

Several fundamental theorems form the backbone of analysis, providing tools for understanding and solving problems.

Limit Theorems

- Squeeze Theorem: If $f(x) \leq g(x) \leq h(x)$ near a point and $\lim_{x \rightarrow c} f(x) = \lim_{x \rightarrow c} h(x) = L$, then $\lim_{x \rightarrow c} g(x) = L$.

Continuity Theorems

- Intermediate Value Theorem: If f is continuous on $[a, b]$ and d is between $f(a)$ and $f(b)$, then there exists $c \in [a, b]$ such that $f(c) = d$.

Differentiation and Integration Theorems

- Mean Value Theorem: There exists some $c \in (a, b)$ such that $f'(c) = \frac{f(b) - f(a)}{b - a}$.
- Fundamental Theorem of Calculus: Connects differentiation and integration, stating that they are inverse processes.

Applications of Analysis

Analysis has numerous applications across various fields:

- Physics: Modeling motion, electromagnetism, and quantum mechanics.
- Engineering: Signal processing, control systems, and systems analysis.
- Economics: Optimization, modeling market behavior, and risk assessment.
- Computer Science: Algorithms, numerical methods, and complexity analysis.
- Mathematics: Developing further theories in topology, differential equations, and mathematical modeling.

Learning and Studying Analysis

Mastering analysis requires a systematic approach:

- Start with the fundamentals of algebra and calculus.
- Study definitions carefully and understand the logical structure of proofs.
- Practice solving problems regularly to develop intuition.
- Explore real-world applications to see the relevance of theoretical concepts.
- Use textbooks, online courses, and educational videos for diverse perspectives.

Conclusion

Analysis is an essential and vibrant part of mathematics that underpins many scientific and engineering disciplines. Its rigorous approach to understanding the behavior of functions and sequences provides a powerful framework for solving complex problems. Whether you are a student

beginning your journey or a professional applying analysis in research, a solid grasp of its principles opens up a world of intellectual exploration and practical application. Embracing the study of analysis not only enhances mathematical skills but also enriches the understanding of the natural and technological world around us.

Analysis is a foundational discipline that underpins numerous fields, from mathematics and science to economics and social sciences. Its primary purpose is to systematically examine, interpret, and understand complex data, phenomena, or concepts to uncover underlying patterns, relationships, or principles. As an intellectual pursuit, analysis enables us to transform raw information into meaningful insights, thereby informing decision-making, advancing knowledge, and fostering innovation. This comprehensive overview delves into the core aspects of analysis, exploring its origins, methodologies, types, applications, and significance in contemporary society.

Understanding the Concept of Analysis

Analysis, at its core, involves breaking down a complex whole into simpler, more manageable parts to better understand how they function individually and collectively. This process is akin to dissecting a machine to see how each component contributes to the overall operation. The fundamental goal is to identify relationships, causality, and structure within the subject under examination.

Key Characteristics of Analysis:

- Decomposition: Dividing a subject into constituent parts.
- Examination: Investigating each part thoroughly.
- Interpretation: Drawing meaningful conclusions from the parts.
- Synthesis: Reintegrating insights to understand the whole.

Analysis is both a methodology and a way of thinking?an intellectual toolkit essential for problem-solving and critical thinking.

The Origins and Evolution of Analysis

The roots of analysis trace back to ancient civilizations, where early mathematicians and philosophers sought methods to quantify and understand the world. However, it was during the 17th and 18th centuries that analysis emerged as a formal discipline.

Historical Milestones:

- Ancient Greece: Philosophers like Aristotle laid early groundwork by categorizing and dissecting

ideas and natural phenomena.

- Mathematics: The development of calculus by Isaac Newton and Gottfried Wilhelm Leibniz in the 17th century marked a pivotal moment, providing tools to handle change and motion mathematically.

- 19th Century: Formalization of analysis as a branch of mathematics, focusing on limits, continuity, and rigorous proofs, primarily through the work of Augustin-Louis Cauchy and Karl Weierstrass.

- Modern Era: Expansion into various fields such as data analysis, qualitative analysis in social sciences, and computational analysis with the advent of computers.

Over time, analysis has evolved from a purely mathematical activity to a versatile approach applicable across disciplines, emphasizing systematic inquiry and empirical evaluation.

Different Types of Analysis

Analysis manifests in various forms depending on the context, purpose, and nature of the subject matter. Here, we explore some of the most prominent types.

Mathematical Analysis

Mathematical analysis deals with functions, limits, derivatives, integrals, and infinite series. It provides the rigorous foundation for calculus, enabling precise examination of change, accumulation, and structure in mathematical models.

Key aspects include:

- Real Analysis: Focuses on real numbers and real-valued functions, exploring concepts like continuity, convergence, and measure theory.

- Complex Analysis: Extends analysis into the complex plane, studying functions of complex variables, with applications in engineering and physics.

- Functional Analysis: Investigates spaces of functions and their transformations, crucial for quantum mechanics and differential equations.

Data Analysis

In the contemporary digital age, data analysis involves examining large datasets to extract meaningful patterns and insights. It combines statistical techniques, computational algorithms, and visualization tools.

Main components:

- Descriptive Analysis: Summarizes data characteristics through measures like mean, median, and standard deviation.
- Inferential Analysis: Draws conclusions and makes predictions about populations based on samples.
- Predictive Analysis: Uses historical data to forecast future trends.
- Prescriptive Analysis: Recommends actions based on data insights.

Qualitative Analysis

Used predominantly in social sciences, qualitative analysis interprets non-numerical data such as interviews, observations, and texts to understand meanings, experiences, and social phenomena.

Methods include:

- Content analysis
- Thematic coding
- Discourse analysis

Scientific Analysis

In scientific research, analysis involves designing experiments, collecting data, and interpreting results to validate hypotheses or establish new theories.

Types include:

- Experimental analysis
- Statistical analysis
- Comparative analysis

The Methodology of Analysis

Effective analysis follows a structured approach, often iterative, to ensure thorough understanding and reliable conclusions.

Typical steps include:

- Defining the Objective: Clarify what questions need answering.
- Data Collection: Gather relevant data through experiments, surveys, observations, or literature.

- Data Processing: Clean, organize, and prepare data for examination.
- Decomposition: Break down the subject into parts or features.
- Examination: Analyze each component using appropriate techniques.
- Interpretation: Derive insights, identify patterns, and establish relationships.
- Synthesis: Integrate findings into a comprehensive understanding.
- Validation: Verify results through replication, peer review, or cross-validation.
- Reporting: Communicate findings clearly and accurately.

This methodology emphasizes rigor, transparency, and critical evaluation at every stage.

Applications of Analysis Across Disciplines

Analysis is integral to numerous fields, each with unique methodologies and objectives.

In Mathematics and Engineering

Analysis underpins the development of models for physical systems, optimization problems, and algorithms. For example:

- Analyzing the stability of structures.
- Optimizing network flows.
- Designing control systems.

In Economics and Finance

Economic analysis helps understand market behaviors, policy impacts, and financial risks.

- Welfare analysis
- Cost-benefit evaluations
- Portfolio analysis

In Social Sciences and Humanities

Qualitative and quantitative analyses uncover social trends, cultural patterns, and human behaviors.

- Sociological surveys
- Historical document analysis
- Literary critique

In Data Science and Technology

Data analysis fuels artificial intelligence, machine learning, and big data applications.

- Pattern recognition
- Natural language processing
- Predictive modeling

Significance and Challenges of Analysis

The value of analysis lies in its capacity to transform complexity into clarity. It enables informed decision-making, innovation, and scientific advancement.

Key benefits include:

- Enhanced understanding: Clarifies intricate phenomena.
- Problem solving: Identifies root causes and solutions.
- Forecasting: Anticipates future developments.
- Innovation: Inspires new ideas and approaches.

However, analysis also faces challenges:

- Data quality: Inaccurate or incomplete data can lead to misleading conclusions.
- Bias: Subjectivity can distort interpretation.
- Complexity: Highly intricate systems may resist straightforward analysis.
- Overfitting: Excessive focus on data nuances may impair generalizability.

Addressing these challenges requires methodological rigor, transparency, and ongoing validation.

The Future of Analysis

As technology advances, analysis continues to evolve, becoming more sophisticated and accessible. Notable trends include:

- Big Data Analytics: Managing and interpreting vast datasets.
- Machine Learning and AI: Automating complex analysis and pattern recognition.
- Interdisciplinary Approaches: Integrating methods across fields for holistic insights.

- Real-Time Analysis: Enabling immediate decision-making in dynamic environments.

Furthermore, ethical considerations surrounding data privacy and responsible interpretation are increasingly prominent, emphasizing the importance of integrity in analytical practices.

Conclusion

Analysis stands as a cornerstone of human intellectual activity, empowering us to navigate an increasingly complex world. From its mathematical foundations to its applications in technology, science, economics, and beyond, analysis equips us with tools to decipher patterns, understand systems, and make informed decisions. Its evolution reflects humanity's relentless pursuit of knowledge and mastery over the unknown. As new challenges and opportunities emerge, the discipline of analysis will undoubtedly continue to adapt and expand, remaining vital in shaping our understanding of the universe and our place within it.

Question What is the main goal of analysis in mathematics? The main goal of analysis is to rigorously study limits, continuity, derivatives, integrals, and infinite series to understand the behavior of functions and sequences. **Answer** How does calculus relate to analysis? Calculus is a fundamental part of analysis, focusing on derivatives and integrals, and provides the tools and concepts used to analyze change and accumulation in mathematical functions. What are the key foundational topics in an introduction to analysis? Key topics include limits, continuity, sequences and series, differentiation, integration, and the topology of real numbers. Why is the rigorous approach important in analysis? A rigorous approach ensures that mathematical concepts are well-defined and proofs are logically sound, which is essential for establishing solid mathematical foundations. What is the significance of the epsilon-delta definition in analysis? The epsilon-delta definition provides a precise way to define limits and continuity, making concepts that seem intuitive into formal mathematical statements. How does real analysis differ from basic calculus? Real analysis delves into the theoretical and foundational aspects of calculus, providing rigorous proofs and exploring the underlying structures, whereas basic calculus focuses on computational techniques and applications.

Related keywords: mathematical analysis, real analysis, calculus, limits, continuity, derivatives, integrals, sequences and series, epsilon-delta definition, functions

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