

Name: _____ Date: _____ Period: _____

1A Review**Unit 1A Review – Polynomial and Rational Functions**

Reviews do NOT cover all material from this lessons but will hopefully remind you of key points. To be prepared, you must study all packets for lessons 1.1 – 1.6.

1. For the function $w(t)$, w is the number of people swimming at the local pool and t is the temperature measured in Fahrenheit. Identify the dependent and independent variables.

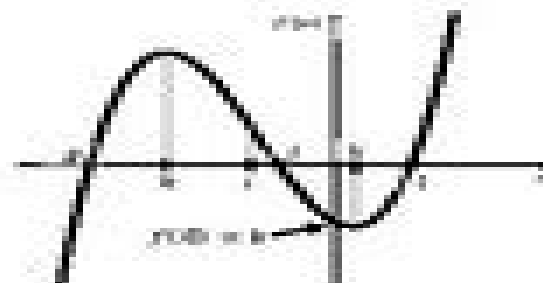
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2. Let the function f be increasing or decreasing, but not both. State whether the function is increasing or decreasing on the interval $1 < x < 1.7$ and justify your answer.

x	1	1.1	1.3	1.5	1.7
$f(x)$	0	1.2	1.5	1.7	1.8

3. Use the graph to the right to answer the questions below.

- On what interval(s) is the graph concave up?
- On what interval(s) is the graph concave down?
- On what interval(s) is the graph increasing?
- On what interval(s) is the graph decreasing?
- Find the zeros of the function.
- Find the y-intercept of the function.



4. **Calculator active.** Find the average rate of change of the function $w(x) = \sqrt{x^2 - 4}$ on the interval $-5 \leq x \leq -1$.

Aventa Learning Rational Functions Unit Exam

**A. Bultheel, P. Gonzalez-Vera, E.
Hendriksen**



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Table of Contents Aventa Learning Rational Functions Unit Exam

1. Understanding the eBook Aventa Learning Rational Functions Unit Exam
 - The Rise of Digital Reading Aventa Learning Rational Functions Unit Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Aventa Learning Rational Functions Unit Exam
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Aventa Learning Rational Functions Unit Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Aventa Learning Rational Functions Unit Exam
 - Personalized Recommendations
 - Aventa Learning Rational Functions Unit Exam User Reviews and Ratings
 - Aventa Learning Rational Functions Unit Exam and Bestseller Lists
5. Accessing Aventa Learning Rational Functions Unit Exam Free and Paid eBooks
 - Aventa Learning Rational Functions Unit Exam Public Domain eBooks
 - Aventa Learning Rational Functions Unit Exam eBook Subscription Services
 - Aventa Learning Rational Functions Unit Exam Budget-Friendly Options

6. Navigating Aventa Learning Rational Functions Unit Exam eBook Formats
 - ePub, PDF, MOBI, and More
 - Aventa Learning Rational Functions Unit Exam Compatibility with Devices
 - Aventa Learning Rational Functions Unit Exam Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Aventa Learning Rational Functions Unit Exam
 - Highlighting and Note-Taking Aventa Learning Rational Functions Unit Exam
 - Interactive Elements Aventa Learning Rational Functions Unit Exam
8. Staying Engaged with Aventa Learning Rational Functions Unit Exam
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Aventa Learning Rational Functions Unit Exam
9. Balancing eBooks and Physical Books Aventa Learning Rational Functions Unit Exam
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Aventa Learning Rational Functions Unit Exam
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Aventa Learning Rational Functions Unit Exam
 - Setting Reading Goals Aventa Learning Rational Functions Unit Exam
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Aventa Learning Rational Functions Unit Exam
 - Fact-Checking eBook Content of Aventa Learning Rational Functions Unit Exam
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
- Interactive and Gamified eBooks

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