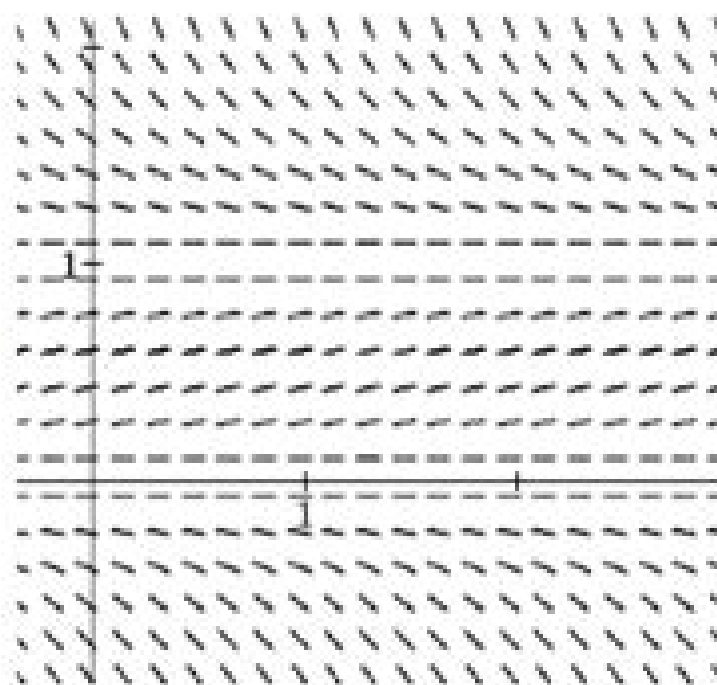


Phillips Exeter Academy - Mathematics 4C – page 68 – problem 2

The diagram shows the *slope field* for the differential equation $\frac{dy}{dx} = 0.8 \cdot y \cdot (1 - y)$, which assigns a slope to each point in the xy -plane. For example, verify that the slope assigned to $(1.3, 1.5)$ is -0.6 . In the diagram, a few of these slopes are represented by short segments. A slope field allows you to visualize the behavior of the solutions to a differential equation. In particular:

- (a) The diagram suggests that the equation has some constant solutions; what are they?
- (b) Verify that $y = \frac{2}{2 - e^{-0.8x}}$ is a solution to the differential equation. Use the slope field to help you sketch this curve.
- (c) If $y(x)$ is a solution to the differential equation, and if $y(0)$ is positive, what is the limiting value of $y(x)$ as x approaches infinity?



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David Hillard, Serena Alexander



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Table of Contents Exeter Math 4c Answers

1. Understanding the eBook Exeter Math 4c Answers
 - The Rise of Digital Reading Exeter Math 4c Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Exeter Math 4c Answers
 - 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 Exeter Math 4c Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exeter Math 4c Answers
 - Personalized Recommendations
 - Exeter Math 4c Answers User Reviews and Ratings
 - Exeter Math 4c Answers and Bestseller Lists
5. Accessing Exeter Math 4c Answers Free and Paid eBooks
 - Exeter Math 4c Answers Public Domain eBooks
 - Exeter Math 4c Answers eBook Subscription Services
 - Exeter Math 4c Answers Budget-Friendly Options

6. Navigating Exeter Math 4c Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Exeter Math 4c Answers Compatibility with Devices
 - Exeter Math 4c Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exeter Math 4c Answers
 - Highlighting and Note-Taking Exeter Math 4c Answers
 - Interactive Elements Exeter Math 4c Answers
8. Staying Engaged with Exeter Math 4c Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exeter Math 4c Answers
9. Balancing eBooks and Physical Books Exeter Math 4c Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exeter Math 4c Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Exeter Math 4c Answers
 - Setting Reading Goals Exeter Math 4c Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Exeter Math 4c Answers
 - Fact-Checking eBook Content of Exeter Math 4c Answers
 - 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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