

6-3 Study Guide and Intervention

Square Root Functions and Inequalities

Square Root Functions A function that contains the square root of a variable expression is a square root function. The domain of a square root function is those values for which the radicand is greater than or equal to 0.

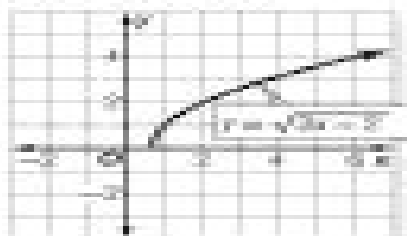
Example: Graph $y = \sqrt{3x - 2}$. State its domain and range.

Since the radicand cannot be negative, the domain of the function is $3x - 2 \geq 0$ or $x \geq \frac{2}{3}$.

The x -intercept is $\frac{2}{3}$. The range is $y \geq 0$.

Make a table of values and graph the function.

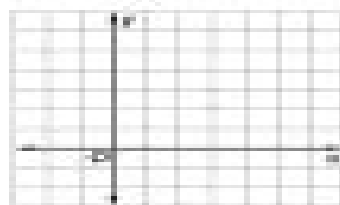
x	y
$\frac{2}{3}$	0
1	1
2	2
3	$\sqrt{7}$



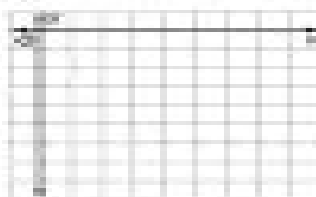
Exercises

Graph each function. State the domain and range.

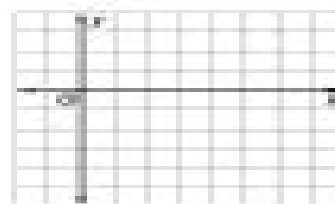
1. $y = \sqrt{2x}$



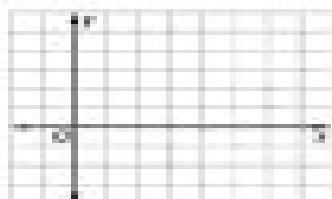
2. $y = -3\sqrt{x}$



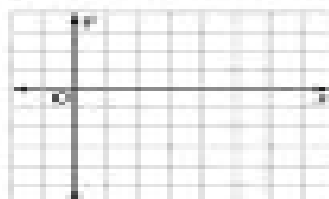
3. $y = -\sqrt{\frac{x}{2}}$



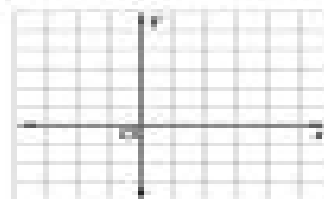
4. $y = 2\sqrt{x+3}$



5. $y = -\sqrt{2x+3}$



6. $y = \sqrt{2x+3}$



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Table of Contents 1square Root Functions Practice B Answers

1. Understanding the eBook 1square Root Functions Practice B Answers
 - The Rise of Digital Reading 1square Root Functions Practice B Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 1square Root Functions Practice B 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 1square Root Functions Practice B Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1square Root Functions Practice B Answers
 - Personalized Recommendations

- 1square Root Functions Practice B Answers User Reviews and Ratings
- 1square Root Functions Practice B Answers and Bestseller Lists
- 5. Accessing 1square Root Functions Practice B Answers Free and Paid eBooks
 - 1square Root Functions Practice B Answers Public Domain eBooks
 - 1square Root Functions Practice B Answers eBook Subscription Services
 - 1square Root Functions Practice B Answers Budget-Friendly Options
- 6. Navigating 1square Root Functions Practice B Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - 1square Root Functions Practice B Answers Compatibility with Devices
 - 1square Root Functions Practice B Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1square Root Functions Practice B Answers
 - Highlighting and Note-Taking 1square Root Functions Practice B Answers
 - Interactive Elements 1square Root Functions Practice B Answers
- 8. Staying Engaged with 1square Root Functions Practice B Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1square Root Functions Practice B Answers
- 9. Balancing eBooks and Physical Books 1square Root Functions Practice B Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1square Root Functions Practice B Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 1square Root Functions Practice B Answers
 - Setting Reading Goals 1square Root Functions Practice B Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 1square Root Functions Practice B Answers
 - Fact-Checking eBook Content of 1square Root Functions Practice B 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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