

FINAL CHECK: LT 7 and 8 Assessment Score: 0 1 2 3 4

Learning Target 7. I can graph and identify domain and range of a function and its inverse.

Learning Target 8. I can write function rules for inverses of functions and verify using composite functions

1. Write an equation for the inverse of each of the given functions. Then state whether the inverse is a function. Show your work.

a. $y = -3x + 9$
 $x = -3y + 9$
 $x - 9 = -3y$

Inverse: $y = \frac{-(x-9)}{3}$

Inverse a function? **YES**

b. $f(x) = 2x^2 - 1$
 $x = 2y^2 - 1$
 $\frac{x+1}{2} = y^2$

Inverse: $y = \pm \sqrt{\frac{x+1}{2}}$

Inverse a function? **NO**

2. Verify, using function composition, that $f(x) = \frac{1}{5}x + 6$ and $g(x) = 5x - 30$ are inverses of each other. Show all steps. $f(g(x)) = x$?

$\frac{1}{5}(5x - 30) + 6$
 $x - 6 + 6$
 x ✓

$g(f(x)) = x$?
 $5(\frac{1}{5}x + 6) - 30$
 $x + 30 - 30$
 x ✓

3. Sketch the function, its inverse and the line of reflection:

a) $y = \frac{3}{4}x - 4$



b) $y = -(x-2)^2$



4. Let $f(x) = -\sqrt{x} + 5$. Find $f(f^{-1}(10)) = 10$

5. The graph of $f(x)$ is shown. Graph the inverse as a solid line and the line of reflection as a dashed line.

Domain of f : $x \geq -2$ Domain of f^{-1} : $x \geq 0$

Range of f : $y \geq 0$ Range of f^{-1} : $y \geq -2$

x	y
-2	0
0	1.5



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Table of Contents Algebra 2 Skills Practice Answers Prentice Hal

1. Understanding the eBook Algebra 2 Skills Practice Answers Prentice Hal
 - The Rise of Digital Reading Algebra 2 Skills Practice Answers Prentice Hal
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Skills Practice Answers Prentice Hal
 - 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 Algebra 2 Skills Practice Answers Prentice Hal
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Skills Practice Answers Prentice Hal
 - Personalized Recommendations
 - Algebra 2 Skills Practice Answers Prentice Hal User Reviews and Ratings
 - Algebra 2 Skills Practice Answers Prentice Hal and Bestseller Lists
5. Accessing Algebra 2 Skills Practice Answers Prentice Hal Free and Paid eBooks

- Algebra 2 Skills Practice Answers Prentice Hal Public Domain eBooks
 - Algebra 2 Skills Practice Answers Prentice Hal eBook Subscription Services
 - Algebra 2 Skills Practice Answers Prentice Hal Budget-Friendly Options
6. Navigating Algebra 2 Skills Practice Answers Prentice Hal eBook Formats
- ePub, PDF, MOBI, and More
 - Algebra 2 Skills Practice Answers Prentice Hal Compatibility with Devices
 - Algebra 2 Skills Practice Answers Prentice Hal Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Algebra 2 Skills Practice Answers Prentice Hal
 - Highlighting and Note-Taking Algebra 2 Skills Practice Answers Prentice Hal
 - Interactive Elements Algebra 2 Skills Practice Answers Prentice Hal
8. Staying Engaged with Algebra 2 Skills Practice Answers Prentice Hal
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra 2 Skills Practice Answers Prentice Hal
9. Balancing eBooks and Physical Books Algebra 2 Skills Practice Answers Prentice Hal
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 2 Skills Practice Answers Prentice Hal
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra 2 Skills Practice Answers Prentice Hal
- Setting Reading Goals Algebra 2 Skills Practice Answers Prentice Hal
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 2 Skills Practice Answers Prentice Hal
- Fact-Checking eBook Content of Algebra 2 Skills Practice Answers Prentice Hal
 - 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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