

CHAPTER
11**Standardized Test A**

For use after Chapter 11

Multiple Choice

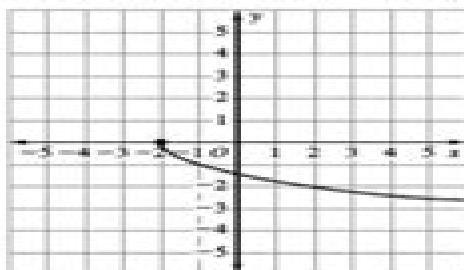
1. The graph of which function is a vertical shrink of the graph $y = \sqrt{x}$?

(A) $y = \frac{1}{3}\sqrt{x}$ (B) $y = 3\sqrt{x}$
(C) $y = -2\sqrt{x}$ (D) $y = \sqrt{x-3}$

2. The graph of which function is a vertical translation 6 units up of the graph of $y = \sqrt{x}$?

(A) $y = \sqrt{x-6}$ (B) $y = \sqrt{x+6}$
(C) $y = \sqrt{x}-6$ (D) $y = \sqrt{x}+6$

3. The graph of which function is shown?



(A) $y = -\sqrt{x-2}$
(B) $y = -\sqrt{x+2}$
(C) $y = -\sqrt{x}-2$
(D) $y = -\sqrt{x}+2$

4. How is the graph of $f(x) = \sqrt{x} + 1$ related to the graph of $g(x) = \sqrt{x} + 4$?

(A) It is a horizontal translation 3 units left of the graph of g .
(B) It is a horizontal translation 3 units right of the graph of g .
(C) It is a vertical translation 3 units down of the graph of g .
(D) It is a vertical translation 3 units up of the graph of g .

5. Which expression is equivalent to $\sqrt{50}$?

(A) $5\sqrt{2}$ (B) $5\sqrt{10}$
(C) $10\sqrt{5}$ (D) $25\sqrt{2}$

6. Which expression is equivalent to $\sqrt{20} \cdot \sqrt{2}$ in its simplest form?

(A) $2\sqrt{10}$ (B) $4\sqrt{10}$
(C) $4\sqrt{5}$ (D) $5\sqrt{8}$

7. Which expression is equivalent to $\sqrt{\frac{9}{x^2}}$?

(A) $3x$ (B) $3\sqrt{x}$
(C) $\frac{3}{x}$ (D) $\frac{\sqrt{3}}{x}$

8. Which expression is equivalent to $\frac{3}{\sqrt{5}}$ in its simplest form?

(A) $\frac{3}{5}$ (B) $\frac{3\sqrt{5}}{5}$
(C) $\frac{\sqrt{15}}{25}$ (D) $\frac{3\sqrt{5}}{25}$

9. Which expression is equivalent to $\sqrt{18} - \sqrt{2}$?

(A) 4 (B) 8
(C) $2\sqrt{2}$ (D) $8\sqrt{2}$

10. Which expression is equivalent to $\sqrt{3}(10 + \sqrt{12})$?

(A) 16 (B) $12\sqrt{3}$
(C) $16\sqrt{3}$ (D) $10\sqrt{3} + 6$

11. Which expression is equivalent to $\frac{8}{\sqrt{x}} + \frac{3}{\sqrt{x}}$ in its simplest form?

(A) $11x$ (B) $11\sqrt{x}$
(C) $\frac{11}{\sqrt{x}}$ (D) $\frac{11\sqrt{x}}{x}$

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Huangqi Zhang

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 - The Rise of Digital Reading Holt Algebra 1 Ohio Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Algebra 1 Ohio Answer Key
 - 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 Holt Algebra 1 Ohio Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Algebra 1 Ohio Answer Key
 - Personalized Recommendations
 - Holt Algebra 1 Ohio Answer Key User Reviews and Ratings
 - Holt Algebra 1 Ohio Answer Key and Bestseller Lists
5. Accessing Holt Algebra 1 Ohio Answer Key Free and Paid eBooks
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 - Holt Algebra 1 Ohio Answer Key eBook Subscription Services
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 - Highlighting and Note-Taking Holt Algebra 1 Ohio Answer Key
 - Interactive Elements Holt Algebra 1 Ohio Answer Key
- 8. Staying Engaged with Holt Algebra 1 Ohio Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Algebra 1 Ohio Answer Key
- 9. Balancing eBooks and Physical Books Holt Algebra 1 Ohio Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Algebra 1 Ohio Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Algebra 1 Ohio Answer Key
 - Setting Reading Goals Holt Algebra 1 Ohio Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Algebra 1 Ohio Answer Key
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 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
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