

4-2

Standardized Test Prep

Standard Form of a Quadratic Function

Multiple Choice

For Exercises 1-6, choose the correct letter.

1. What is the vertex of the parabola $y = x^2 + 8x + 5$?

(A) $(4, -11)$ (B) $(-4, -11)$ (C) $(-4, 5)$ (D) $(4, 5)$

$$-\frac{b}{2a} = -\frac{8}{2(1)} = -4$$

$$f(-4) = 16 - 32 + 5 = -11$$

2. What is the maximum value of the function $y = -3x^2 + 12x - 8$?

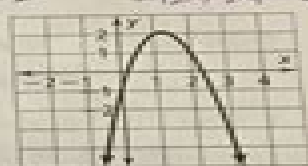
(A) 4 (B) 8 (C) -2 (D) -8

$$-\frac{12}{2(-3)} = \frac{-12}{-6} = 2$$

$$-3(4) + 12(2) - 8 = -12 + 24 - 8 = 4$$

3. Which function has the graph shown at the right?

(A) $y = -2x^2 - 5x - 1$ (B) $y = -2x^2 + 5x - 1$ (C) $y = -2x^2 - 5x + 1$ (D) $y = -2x^2 + 5x + 1$



$$C = -1$$

4. What is the vertex form of the function $y = 3x^2 - 12x + 17$?

(A) $y = 3(x - 2)^2 + 5$ (B) $y = 3(x - 2)^2 + 11$ (C) $y = 3(x + 2)^2 + 5$ (D) $y = 3(x + 2)^2 + 11$

$$3(x^2 - 4x + 4) + 17 - 12$$

5. What is the equation of the parabola with vertex $(3, -20)$ and that passes through the point $(7, 12)$?

(A) $y = 2x^2 + 12x - 2$ (B) $y = 2x^2 - 12x - 2$ (C) $y = -2x^2 + 12x - 38$ (D) $y = 2x^2 - 12x + 38$

$$b = -4 \quad \frac{b}{2} = -2 \quad (-2)^2 = 4$$

$$3(x - 2)^2 + 5$$

6. For the function $y = -5x^2 - 10x + c$, the vertex is $(-1, 8)$. What is c ?

(A) -13 (B) -3 (C) 3 (D) 13

$$8 = -5(-1)^2 - 10(-1) + c$$

$$8 = -5 + 10 + c$$

$$8 = 5 + c$$

$$c = 3$$

Short Response

7. To increase revenue, a county wants to increase park fees. The overall income will go up, but there will be expenses involved in collecting the fees. For a $p\%$ increase in the fees, this cost C will be $C = 0.6p^2 - 7.2p + 48$, in thousands of dollars. What percent increase will minimize the cost to the county? Show your work.

$$-\frac{b}{2a} = \frac{-(-7.2)}{2(0.6)} = \frac{7.2}{1.2} = 6$$

$$f(6) =$$

6% increase to minimize the cost

Halg2 Homework Answers

Sebastian Brünink

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Table of Contents Halg2 Homework Answers

1. Understanding the eBook Halg2 Homework Answers
 - The Rise of Digital Reading Halg2 Homework Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Halg2 Homework 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 Halg2 Homework Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Halg2 Homework Answers
 - Personalized Recommendations
 - Halg2 Homework Answers User Reviews and Ratings

- Halg2 Homework Answers and Bestseller Lists
- 5. Accessing Halg2 Homework Answers Free and Paid eBooks
 - Halg2 Homework Answers Public Domain eBooks
 - Halg2 Homework Answers eBook Subscription Services
 - Halg2 Homework Answers Budget-Friendly Options
- 6. Navigating Halg2 Homework Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Halg2 Homework Answers Compatibility with Devices
 - Halg2 Homework Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Halg2 Homework Answers
 - Highlighting and Note-Taking Halg2 Homework Answers
 - Interactive Elements Halg2 Homework Answers
- 8. Staying Engaged with Halg2 Homework Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Halg2 Homework Answers
- 9. Balancing eBooks and Physical Books Halg2 Homework Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Halg2 Homework Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Halg2 Homework Answers
 - Setting Reading Goals Halg2 Homework Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Halg2 Homework Answers
 - Fact-Checking eBook Content of Halg2 Homework 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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