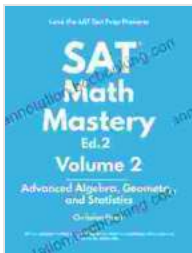


Master the SAT Math Section: Advanced Algebra, Geometry, and Statistics

Unlock the Secrets to SAT Math Success

Are you feeling overwhelmed by the prospect of taking the SAT math section? Don't worry, we've got you covered! Our comprehensive SAT Math Mastery book will guide you through the challenges of advanced algebra, geometry, and statistics, equipping you with the knowledge and strategies needed to ace the test.



SAT Math Mastery: Advanced Algebra, Geometry and Statistics by Christian Heath

★★★★☆ 4.8 out of 5

Language : English

File size : 34478 KB

Screen Reader: Supported

Print length : 544 pages

Lending : Enabled



Advanced Algebra: A Step-by-Step Approach

Master the intricacies of advanced algebra with our step-by-step approach. From polynomial equations to quadratic functions, our expert authors will break down complex concepts into manageable chunks, making them easy to understand and apply.

(7) If $x^2 + \frac{3}{x} = 4(a^3 + b^3)$ and $3x + \frac{1}{x^2} = 4(a^3 - b^3)$, then $a^2 - b^2$ is equal to

- (a) 0 (b) 1 (c) 2 (d) 4

(8) If $x = 6 + \frac{1}{x}$ then the value of $x^4 + \frac{1}{x^4}$ is

- (a) 1442 (b) 1444 (c) 1446 (d) 1448

(9) $x = \sqrt{5} + 2$, then the value of $\frac{x^2 - 1}{x^2}$ is

- (a) $8\sqrt{5}$ (b) $16\sqrt{5}$ (c) $24\sqrt{5}$ (d) $30\sqrt{5}$

(10) the value of the expression

$\left\{ \frac{1}{(2^2 - 1)} \right\} + \left\{ \frac{1}{(4^2 - 1)} \right\} + \left\{ \frac{1}{(6^2 - 1)} \right\} + \dots + \left\{ \frac{1}{(20^2 - 1)} \right\}$ is equal to

- (a) $\frac{9}{19}$ (b) $\frac{10}{19}$ (c) $\frac{10}{21}$ (d) $\frac{11}{21}$

(11) the value of $(\sqrt{6} - \sqrt{10} - \sqrt{21} - \sqrt{35}) \times (\sqrt{6} - \sqrt{10} + \sqrt{21} - \sqrt{35})$ is

- (a) 7 (b) 9 (c) 10 (d) 11

(12) When $a = 2.5$, $b = 1.5$, then find the value of $9a^2 + 16b^2 - 24ab = ?$

- (a) 6.25 (b) 22.5 (c) 2.25 (d) 62.5

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Unleash your inner geometer! Our book covers all aspects of SAT geometry, including lines, angles, triangles, and proofs. We'll teach you how to identify and solve geometry problems with confidence, even if you've never been a fan of geometry before.

What is the set of all solutions to the equation

$$\sqrt{x+2} = 2$$

- A) $\{-1, 2\}$
- B) $\{-1\}$
- C) $\{2\}$
- D) There are no solutions to the given equation.

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Prepare to tame the data beast! Our statistics section will empower you with the skills to analyze data, understand probability, and tackle questions on the SAT. You'll learn about mean, median, standard deviation, and more.

What is the set of all solutions to the equation

$$\sqrt{x+2} = 2$$

A) $\{-1, 2\}$

B) $\{-1\}$

C) $\{2\}$

D) There are no solutions to the given equation.

Why Choose Our SAT Math Mastery Book?

- **Comprehensive Coverage:** Covers all advanced algebra, geometry, and statistics topics tested on the SAT.
- **Expert Authors:** Written by experienced SAT prep instructors with proven success in helping students improve their scores.
- **Step-by-Step Approach:** Breaks down complex concepts into manageable chunks for easy understanding.
- **Practice Questions:** Includes hundreds of practice questions with detailed solutions to reinforce your learning.
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Testimonials

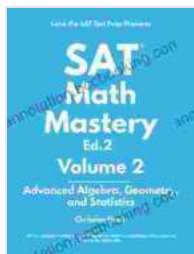
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