

Trigonometry and Algebra Formulas

TRIGONOMETRY

Right triangle definition

For this definition we assume that

$$0 < \theta < \frac{\pi}{2} \text{ or } 0^\circ < \theta < 90^\circ.$$



$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\csc \theta = \frac{\text{hypotenuse}}{\text{opposite}}$$

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\sec \theta = \frac{\text{hypotenuse}}{\text{adjacent}}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

$$\cot \theta = \frac{\text{adjacent}}{\text{opposite}}$$

Double Angle Formulas | Half Angle Formulas

$$\sin(2\theta) = 2\sin\theta\cos\theta \quad \sin^2\theta = \frac{1}{2}(1 - \cos(2\theta))$$

$$\cos(2\theta) = \cos^2\theta - \sin^2\theta$$

$$= 2\cos^2\theta - 1$$

$$= 1 - 2\sin^2\theta$$

$$\tan(2\theta) = \frac{2\tan\theta}{1 - \tan^2\theta}$$

$$\cos^2\theta = \frac{1}{2}(1 + \cos(2\theta))$$

$$\tan^2\theta = \frac{1 - \cos(2\theta)}{1 + \cos(2\theta)}$$

Product to Sum Formulas

$$\sin \alpha \sin \beta = \frac{1}{2} [\cos(\alpha - \beta) - \cos(\alpha + \beta)]$$

$$\cos \alpha \cos \beta = \frac{1}{2} [\cos(\alpha - \beta) + \cos(\alpha + \beta)]$$

$$\sin \alpha \cos \beta = \frac{1}{2} [\sin(\alpha + \beta) + \sin(\alpha - \beta)]$$

$$\cos \alpha \sin \beta = \frac{1}{2} [\sin(\alpha + \beta) - \sin(\alpha - \beta)]$$

Sum and Difference Formulas

$$\sin(\alpha \pm \beta) = \sin \alpha \cos \beta \pm \cos \alpha \sin \beta$$

$$\cos(\alpha \pm \beta) = \cos \alpha \cos \beta \mp \sin \alpha \sin \beta$$

$$\tan(\alpha \pm \beta) = \frac{\tan \alpha \pm \tan \beta}{1 \mp \tan \alpha \tan \beta}$$

Pythagorean Identities

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\tan^2 \theta + 1 = \sec^2 \theta$$

$$1 + \cot^2 \theta = \csc^2 \theta$$

Inverse Trig Functions

$$y = \sin^{-1} x \text{ is equivalent to } x = \sin y$$

$$y = \cos^{-1} x \text{ is equivalent to } x = \cos y$$

$$y = \tan^{-1} x \text{ is equivalent to } x = \tan y$$

Law of Sines

$$\frac{\sin \alpha}{a} = \frac{\sin \beta}{b} = \frac{\sin \gamma}{c}$$

Law of Cosines

$$a^2 = b^2 + c^2 - 2bc \cos \alpha$$

$$b^2 = a^2 + c^2 - 2ac \cos \beta$$

$$c^2 = a^2 + b^2 - 2ab \cos \gamma$$

ALGEBRA

Arithmetic Operations

$$ab + ac = a(b + c) \quad a\left(\frac{b}{c}\right) = \frac{ab}{c}$$

$$\left(\frac{a}{b}\right) + \frac{c}{d} = \frac{ad + bc}{bd} \quad \left(\frac{a}{b}\right) - \frac{c}{d} = \frac{ad - bc}{bd}$$

$$\frac{a - b}{c - d} = \frac{b - a}{d - c} \quad \frac{a + b}{c} = \frac{a}{c} + \frac{b}{c}$$

$$\frac{ab + ac}{a} = b + c, \quad a \neq 0 \quad \left(\frac{a}{b}\right) - \frac{ad}{bc} = \frac{ad}{bc}$$

The information for this handout was compiled from the following sources:

Paul's Online Math Notes. (n.d.). Retrieved from http://tutorial.math.lamar.edu/cheat_table.aspx

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**Fritz Stewart,Rick Sliter,Princeton
Review (Firm)**

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Table of Contents Algebra And Trigonometry 2 Answers

1. Understanding the eBook Algebra And Trigonometry 2 Answers
 - The Rise of Digital Reading Algebra And Trigonometry 2 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra And Trigonometry 2 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 Algebra And Trigonometry 2 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra And Trigonometry 2 Answers
 - Personalized Recommendations
 - Algebra And Trigonometry 2 Answers User Reviews and Ratings
 - Algebra And Trigonometry 2 Answers and Bestseller Lists
5. Accessing Algebra And Trigonometry 2 Answers Free and Paid eBooks
 - Algebra And Trigonometry 2 Answers Public Domain eBooks
 - Algebra And Trigonometry 2 Answers eBook Subscription Services
 - Algebra And Trigonometry 2 Answers Budget-Friendly Options
6. Navigating Algebra And Trigonometry 2 Answers eBook Formats

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