

# 30 Essential Facts for High School Maths

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Area of a triangle = 
$$\frac{1}{2}$$
 x base x height  
Area of a trapezium =  $\frac{1}{2}$  (a + b) x height

Area of a circle = 
$$\pi r^2$$
 Circumference =  $\pi D$ 

### Volume of a prism — cross section area x length

Volume of a pyramid = 
$$\frac{1}{3}$$
 base area x height

#### Pythagoras $a^2 + b^2 = c^2$

#### SohCahToa

Sine Rule 
$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Cosine Rule 
$$a^2 = b^2 + c^2 - 2bcCosA$$

Area of a triangle 
$$\frac{1}{2}abSinC$$

$$Speed = \frac{Distance}{Time}$$

$$Density = \frac{Mass}{Volume}$$

$$Pressure = \frac{Force}{Area}$$

$$y = mx + c$$

Perpendicular Gradient = 
$$-\frac{1}{m}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x^{2} + bx + c = (x + (\frac{b}{2}))^{2} - (\frac{b}{2})^{2} + c$$

$$\chi^m \times \chi^n = \chi^{(m+n)}$$

$$\chi^m \div \chi^n = \chi^{(m-n)}$$

$$(x^m)^n = x^{mn}$$

$$x^0 = 1$$

$$x^{\frac{1}{2}} = \sqrt{x}$$

$$x^{\frac{m}{n}} = \sqrt[n]{x^m}$$

$$\sqrt{ab} = \sqrt{a}\sqrt{b}$$

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

$$\sqrt{a} \times \sqrt{a} = a$$

#### Proving Congruency of triangles: SSS SAS AAS RHS

Histograms: Frequency = 
$$\frac{frequency}{Class Width}$$

$$\frac{Exterior\ angle\ of}{a\ regular\ polygon} = \frac{360^o}{number\ of\ sides}$$

## **High School Mathematics Formulas**

Yan Bai

**High School Mathematics Formulas:** 

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#### **Table of Contents High School Mathematics Formulas**

- 1. Understanding the eBook High School Mathematics Formulas
  - The Rise of Digital Reading High School Mathematics Formulas
  - Advantages of eBooks Over Traditional Books
- 2. Identifying High School Mathematics Formulas
  - 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 High School Mathematics Formulas
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from High School Mathematics Formulas
  - Personalized Recommendations

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

- 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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