

Geometry – Things to Remember!



3-D Figures:

Prism: $V = Bh$

Pyramid: $V = \frac{1}{3} Bh$

Cylinder: $V = \pi r^2 h$; $SA = 2\pi rh + 2\pi r^2$

Cone: $V = \frac{1}{3} \pi r^2 h$; $SA = \pi r + \pi r^2$

Sphere: $V = \frac{4}{3} \pi r^3$; $SA = 4\pi r^2 = \pi d^2$

Regular Solids:

Tetrahedron – 4 faces

Cube – 6 faces

Octahedron – 8 faces

Dodecahedron – 12 faces

Icosahedron – 20 faces

Triangles:

By Sides:

Scalene – no congruent sides

Isoceles – 2 congruent sides

Equilateral – 3 congruent sides

By Angles:

Acute – all acute angles

Right – one right angle

Obtuse – one obtuse angle

Equiangular – 3 congruent angles (60°)

Equilateral $\leftrightarrow$ Equiangular

Exterior angle of a triangle equals the sum of the 2 non-adjacent interior angles.

Mid-segment of a triangle is parallel to the third side and half the length of the third side.

Similar Triangles:

AA

SSS for similarity

SAS for similarity

Corresponding sides of similar triangles are in proportion.

Locus Theorems:

Fixed distance from point.



Fixed distance from a line.



Equidistant from 2 points.



Equidistant 2 parallel lines.



Equidistant from 2 intersecting lines



Congruent Triangles

SSS

SAS

ASA

AAS

HL (right triangles only)

NO donkey theorem (SSA or ASS)

CPCTC (use after the triangles are congruent)

Inequalities:

–Sum of the lengths of any two sides of a triangle is greater than the length of the third side.

–Longest side of a triangle is opposite the largest angle.

–Exterior angle of a triangle is greater than either of the two non-adjacent interior angles.

Mean Proportional in Right Triangle:

Altitude Rule:

$$\frac{\text{part of hyp}}{\text{altitude}} = \frac{\text{altitude}}{\text{other part hyp}}$$

Leg Rule:

$$\frac{\text{hypotenuse}}{\text{leg}} = \frac{\text{leg}}{\text{projection}}$$

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Table of Contents Answer Key To August 2013 Geometry Regents

1. Understanding the eBook Answer Key To August 2013 Geometry Regents
 - The Rise of Digital Reading Answer Key To August 2013 Geometry Regents
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To August 2013 Geometry Regents
 - 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 Answer Key To August 2013 Geometry Regents
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To August 2013 Geometry Regents

- Personalized Recommendations
 - Answer Key To August 2013 Geometry Regents User Reviews and Ratings
 - Answer Key To August 2013 Geometry Regents and Bestseller Lists
5. Accessing Answer Key To August 2013 Geometry Regents Free and Paid eBooks
- Answer Key To August 2013 Geometry Regents Public Domain eBooks
 - Answer Key To August 2013 Geometry Regents eBook Subscription Services
 - Answer Key To August 2013 Geometry Regents Budget-Friendly Options
6. Navigating Answer Key To August 2013 Geometry Regents eBook Formats
- ePub, PDF, MOBI, and More
 - Answer Key To August 2013 Geometry Regents Compatibility with Devices
 - Answer Key To August 2013 Geometry Regents Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Answer Key To August 2013 Geometry Regents
 - Highlighting and Note-Taking Answer Key To August 2013 Geometry Regents
 - Interactive Elements Answer Key To August 2013 Geometry Regents
8. Staying Engaged with Answer Key To August 2013 Geometry Regents
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key To August 2013 Geometry Regents
9. Balancing eBooks and Physical Books Answer Key To August 2013 Geometry Regents
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key To August 2013 Geometry Regents
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key To August 2013 Geometry Regents
- Setting Reading Goals Answer Key To August 2013 Geometry Regents
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key To August 2013 Geometry Regents

- Fact-Checking eBook Content of Answer Key To August 2013 Geometry Regents
- 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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