# Geometry - Things to Remember!



# 3-D Figures:

Prism: V = Rh

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

Cylinder:  $V = \pi r^3 h$ ;  $SA = 2\pi r h + 2\pi r^3$ 

Cone:  $V = \frac{1}{4}\pi r^2 h$ ;  $SA = s\pi r + \pi r^2$ 

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

# Polygon Interior/Exterior Angles:

Sum of int, angles  $\approx 180(n-2)$ 

Each int. angle (regular) =  $\frac{180(n-2)}{}$ 

Sum of ext. angles = 360

Each ext. angle (regular) =

#### Related Conditionals:

Converse: switch if and then Inverse: negate if and then

Contrapositive: inverse of the converse

as the original statement)

(contrapositive has the same truth value

#### Pythagorean Theorem:

 $a^2 = a^2 + b^2$ 

Converse: If the sides of a triangle satisfy  $c^2 = a^2 + b^2$  then the triangle is a right triangle.

# Regular Solids:

Tetrahedron - 4 faces

Cube - 6 faces. Octahedron - R faces Dodecahedron - 12 faces

Icosahedron - 20 faces

# Triangles:

#### By Sides:

Scalene - no congruent sides Isosceles - 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 60 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.

# Locus Theorems:

Fixed distance from point.



Equidistant from 2 points. Equidistant 2 parallel lines.



Equidistant from 2 intersecting lines



NO donkey theorem

(SSA or ASS)

Fixed distance from a line.

#### Congruent Triangles

888 SAS

ASA

AAS

HL (right triangles only)

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.

#### Similar Triangles:

AA

SSS for similarity. SAS for similarity

Corresponding sides of similar triangles are in proportion.

#### Mean Proportional in Right Triangle:

Altitude Rule:

post of hopobition by other post key obstated a

Leg Rule: In polymers.

prosection.

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### Table of Contents Geometry Regents January 2014 Answer Key

- 1. Understanding the eBook Geometry Regents January 2014 Answer Key
  - The Rise of Digital Reading Geometry Regents January 2014 Answer Key
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Geometry Regents January 2014 Answer Key
  - 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 Geometry Regents January 2014 Answer Key
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Geometry Regents January 2014 Answer Key
  - Personalized Recommendations
  - Geometry Regents January 2014 Answer Key User Reviews and Ratings
  - Geometry Regents January 2014 Answer Key and Bestseller Lists
- 5. Accessing Geometry Regents January 2014 Answer Key Free and Paid eBooks

- Geometry Regents January 2014 Answer Key Public Domain eBooks
- Geometry Regents January 2014 Answer Key eBook Subscription Services
- Geometry Regents January 2014 Answer Key Budget-Friendly Options
- 6. Navigating Geometry Regents January 2014 Answer Key eBook Formats
  - o ePub, PDF, MOBI, and More
  - Geometry Regents January 2014 Answer Key Compatibility with Devices
  - Geometry Regents January 2014 Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Geometry Regents January 2014 Answer Key
  - Highlighting and Note-Taking Geometry Regents January 2014 Answer Key
  - Interactive Elements Geometry Regents January 2014 Answer Key
- 8. Staying Engaged with Geometry Regents January 2014 Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Geometry Regents January 2014 Answer Key
- 9. Balancing eBooks and Physical Books Geometry Regents January 2014 Answer Key
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Geometry Regents January 2014 Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Geometry Regents January 2014 Answer Key
  - Setting Reading Goals Geometry Regents January 2014 Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Geometry Regents January 2014 Answer Key
  - Fact-Checking eBook Content of Geometry Regents January 2014 Answer Key
  - 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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