# 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 (contrapositive has the same truth value

as the original statement)

# 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.

Fixed distance from a line.



Equidistant from 2 intersecting lines



#### Congruent Triangles

888 NO donkey theorem SAS (SSA or ASS)

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.

### 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.

#### 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.

# **Answer Key To August 2012 Geometry Regents**

**Responsive Educations Solutions Staff** 

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Measurement and Geometry Jocelyn C. Walton, Cheryl Klein, 1995-09

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