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.

<u>January 2013 Geometry Regents Answer Booklet</u>

Robert R. Redfield

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