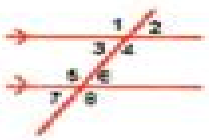
Things to Remember from Geometry

If two parallel lines are cut by a transversal, then —



Corresponding ∠s are ≅.
∠1≅∠5, ∠2≅∠6,
∠3≅∠7, ∠4≅∠8

Alternate Interior ∠s are ≅.
∠3≅∠6, ∠4≅∠5

Alternate Exterior ∠s are ≅.
∠1≅∠8, ∠2≅∠7

Consecutive ∠s are supplementary.
m∠3+m∠5=180,
m∠4+m∠6=180

Special Quadrilaterals

Parallelogram:
- Opposite sides ∥ & =
- opposite ∠s ≅
- consecutive ∠s supplementary
- diagonals bisect each other

Rectangle:
- All characteristics of parallelograms
- 4 right ∠s
- ≅ diagonals

Rhombus:
- All characteristics of parallelograms
- 4 ≅ sides
- Diagonals ⊥
- Diagonals bisect ∠s

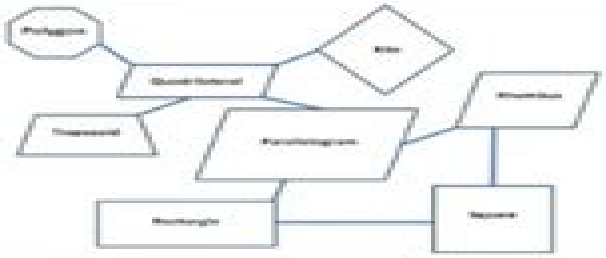
Square:
- All characteristics of rectangles, &rhombi

Other Quadrilaterals

Trapezoid:
- Only one set ∥ sides (bases)

Isosceles Trapezoid:
- ≅ legs
- base ∠s ≅
- diagonals ≅
- opposite ∠s supplementary

Kite:
- 2 pairs of adjacent ≅ sides
- diagonal from the vertex ∠s is ⊥ bisector of the other diagonal & ∠ bisector for the vertex ∠s
- Non-vertex ∠s ≅



Slope Formula

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Slope-Intercept Form

$$y = mx + b$$

Point-Slope Formula

$$(y - y_1) = m(x - x_1)$$

Polygons

Interior ∠s:
Sum of interior ∠s = $180(n-2)$
Each interior ∠ (regular) = $\frac{180(n-2)}{n}$

Exterior ∠s:
Sum of exterior ∠s = 360°
Each exterior ∠ (regular) = $\frac{360}{n}$

Triangle Inequalities:
-Sum of the lengths of any 2 sides of a Δ is > the length of the 3rd side.
-Longest side of a Δ is opposite the largest ∠.

Pythagorean Theorem

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

-a and b are legs
-c is always the hypotenuse (side opposite the right angle)

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

Classifying 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

Distance Formula:

$$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Midpoint Formula:

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

Proving Triangles Congruent:
SSS SAS
ASA AAS
HL (right triangles only)
NO donkey theorem (SSA)
or conformation (AAA)
*CPCTC (use after the triangles are ≅)

Proving Similar Triangles:
AA, SSS, SAS
*Corresponding sides of similar triangles are proportional.

Regular: all angles are ≅ and all sides are ≅.
Equiangular: all angles are ≅.
Equilateral: all sides are ≅.

Points of Concurrency

Centroid: Medians (from vertex to midpoint)
Center of Gravity/ Balance Point
Incenter: Angle Bisectors
Equal distance from all sides
Circumcenter: Perpendicular Bisectors
Equal distance from all vertices
Orthocenter: Altitudes (perpendicular & can be outside the Δ)

Naming Polygons

triangle – 3 sides
quadrilateral – 4 sides
pentagon – 5 sides
hexagon – 6 sides
heptagon – 7 sides
octagon – 8 sides
decagon – 10 sides
dodecagon – 12 sides

Concave
(a place to hide)

Convex
no diagonals lying outside

Things to Remember from Geometry

Conditional Statements
If – hypothesis;
Then – conclusion
$p \rightarrow q$
Converse: switch if and then
$q \rightarrow p$
Inverse: negate if and then
$\sim p \rightarrow \sim q$
Contrapositive: negate the converse
$\sim q \rightarrow \sim p$
(contrapositive has the same truth value as the original statement)

Special Right Triangles

hyp = leg * √2
leg = hyp ÷ √2

multiply → make it bigger
divide → make it smaller

hypotenuse = short leg * 2
short leg = hypotenuse ÷ 2
long leg = short leg * √3
short leg = long leg ÷ √3

Trigonometric Ratios

$$\sin\theta = \frac{\text{opposite leg}}{\text{hypotenuse}}$$

$$\cos\theta = \frac{\text{adjacent leg}}{\text{hypotenuse}}$$

$$\tan\theta = \frac{\text{opposite leg}}{\text{adjacent leg}}$$

*To find the angle, use $\sin^{-1}$ key.

Spheres

$A = 4\pi r^2$
$V = \frac{4}{3}\pi r^3$

Circles

$A = \pi r^2$

$C = d\pi = 2\pi r$

Sector Area

$$\frac{\text{arc measure}}{360°} = \frac{\text{sector area}}{\text{circle area}}$$

Arc Length

$$\frac{\text{arc measure}}{360°} = \frac{\text{arc length}}{\text{circumference}}$$

Conics (Circle Equations):
center at (0,0)
$x^2 + y^2 = r^2$
center at (h, k)
$(x - h)^2 + (y - k)^2 = r^2$

*r is the radius

Segment Lengths

tangent = tangent "Hat" Rule

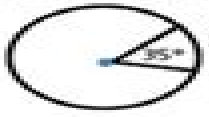
2 intersecting chords
part · part = part · part

tangent & secant
(tangent)² = outside · whole

2 secants
outside · whole = outside · whole

Arc and Angle Measures

VERTEX IS THE CENTER
central angle = intercepted arc

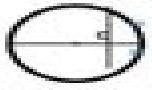


VERTEX ON THE CIRCLE
Angle formed by 2 chords or chord/secant & tangent
angle = half arc
arc = 2 * angle

VERTEX IN THE CIRCLE
Angle formed by 2 chords
angle = half the sum of arcs

VERTEX OUTSIDE THE CIRCLE
Angle formed by 2 tangents, or 2 secants, or tangent/secant
angle = half the difference of arcs

Other circle theorems



A radius or diameter perpendicular to a chord bisects the chord & its arc.

A radius & tangent intersect at the point of tangency to form a right angle.

2 inscribed ∠s that intercept

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