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All Formulas		All Formulas (cont)		All Properties: (cont)		Chapter 3	Chapter 3.1 (cont)	
Interior Angles:	Sum of the measures of interior angles of a triangle =	Undefined Slope:	vertical slope of parallel lines: same slope. Slope of perpendicular lines:	Transitive Property of Congruence - A=(C) B B=C; then A=(C) C Substitution Property - If A=B then A can be substituted for B Distrubutive Property - A(B+C)= AB+AC		Consec utive Interior:	If they lie between the two lines and on the same side of the transversal	
Exterior Angle of a Triangle:	180 gle of m∠1= m∠A+m∠B		m1. m2=-1 : write an equation from the graph then fin the			All Angle/Triangle Info + Extra Vocab		
Exterior Angles:	Sum of the measure of exterior angles of a convex polygon = 360		slope & y value.	AB=CD, then CD=AB		Acute Angle:	An angle between 0 and 90 degrees.	
		AB - Line AB Ab - Segment AB		More Angles Acute,		Acute Triangle:	Triangle with three acute angles	
						Adjacent Angles:		
Given Point:	A(x1,y1) and B(x2.v2)	AB - Ray A	В	Right,		Altitude	The perpendicular	
Midpoint: Distance Formula:	(x1+x2/2, y1+x1/2)	≅ - Congruent		Obtuse		of a	segment from one	
		∠ABC - An	gle ABC	Complementary		mangle	the opposite side/ to the line that contains the	
		m∠A - Mea	asure of angle A	Adjacent				
Slope	rise/run= y2-	- Perpendicular to		Supplementary		A ve vel e v	opposite side.	
Slope- Intercept	v=mx+b	II - Farallel IU m - Slope		Medians		Angle:	with the same endpoint. Rays- Sides of the	
form of linear	у=піх+ы	Δ ABC - Triangle ABC		Altitudes				
equation with		< - Is less than		Scalene	No congruent		angle. Endpoint- The vertex of the angle.	
intercept b:		> - Is greater than			sides	Angle	A ray that divides an	
Zero slope:	Horizontal	≠- Is not eq	ual to	Equalatera Triangle	al All sides are congruent	Bisector:	angle into two angles	
Negative slope:	Goes down left	≅ - Is not c	ongruent to	Isosceles Triangle	2 congruent		that are \cong .	
	to right Rises left from to the right		ies		sides			
Positive slope:		Addition Property of Equality - A=B then A+C= B+C		Chapter 3	1			
				Correspo	When they have			
		Subtraction	Property of Equality -	nding	corresponding			
		Multiplicatio	Multiplication Property of Equality -		positions			
		Devision Property of Equality -		Alternate	If they lie between the			
		Reflexive P A=A; AB=A	roperty of Equality - B	intenor.	opposite sides of the transversal			
		Reflexive Property of Congruence - AB=(C); CD=AB Transitive Property of Equality - A=B; B=C; then A=C		Alternate Exterior:	If they lie outside the two lines and on			
					opposite sides of the transversal			

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All Angle/Triangle Info + Extra Vocab (cont)		All Angle/Triangle Info + Extra Vocab (cont)		All Angle/Triangle Info + Extra Vocab (cont)		All Postulates (cont)	
	Between:	When 3 points lie on a line, you can say that one point is	Congruency transformati on/	1- Translation. 2- Reflections, 3- Rotations	Heptagon, Hexagon, Pentagon	Polygon with 7 sides, 6 sides, 5 sides,	9 - A plane contains at least three noncollinear points10 - If two point lie in a plane, then the line containing them lies in the
	Bioconditio nal	A statement that contains the phrase	Conjecture:	An unproven statement that is based on observation ex: all prime numbers are odd	Hypotenuse Skew lines	The side of the opposite the right angle. Lines that don't	plane 11 -If two planes intersect, then their intersection is a line 12 - Linear pair " If two engles
	Statement: Centroid of	"if and only if" The point of				intersect + are NOT coplanar	form a linear pair. then they are supplementary.
	Circumfere nce:	three medians of the triangle.	Contrapositi The equivalen ve: statement form by negating th hypothesis an conclusion of	The equivalent statement formed	All Postulates		Corresponding Angles Postulate & its Converse- "If two parallel lines
		Distance around a circle		by negating the hypothesis and conclusion of the	line can be ma with the real r	atched one to one numbers.The real	pairs of corresponding angles are \cong . " " so the corresponding angles
	Points: Compleme	Same line Two angles whose	at lie on the converse of a n conditional tr es whose statement. F	to a point is th point.	er that corresponds ne coordinate of the	are ≅, then the lines are . Slopes of Parallel "Lines" - In a coordinate plane two nonvertical	
	ntary Angles:	measures have the sum 90. The sum of the measures of an	convex A Polygon that is Polygon, not convex is non- Concave convex/concave. I its ent is 90.	A Polygon that is not convex is non-	Segment Add between A & If AB+BC=AC	ition " - If B is C, then AB+BC=AC. then B is between A	lines are parallel if & only if they have the same slope. Any 2 vertica lines are .
	Conditional	angle and its complement is 90.		Convex Polygons = No "dents", Has a	& C Protractor " - The measure of ∠AOB is equal to the the absolute value of the difference between the real numbers for OA & OB. Segment Addition "- If B is between A & C, then AB + BC= AC. If AB+BC=AC, then B is between A & C		Slopes of perpendicular " " - In a coordinate plane, two nonvertical lines are perpendicular if and only it the product of their slopes is -1. Horizontal lines are perpendicular to vertical lines
	Statement	Statement statement that has two parts-	Coplanar points	Points that lie in the same plane			
		Conclusion ex: If $m \angle A = 90$, then $\angle A$ is a right angle.	Equiangular Polygon, Equilateral,p olygon,	Three congruent sides, all of its sides congruent, three congruent sides, at			SSS "Congruence Postulate" -If 3 sides of a triangle are congruent to 3 sides of another triangle, then
		Equilateralleast 2 congruentAngle Atriangle,isossidesinteriorceles,m∠RS5 - Threeexists e	Angle Addition interior of ∠R m∠RSP+ m∠	n " - If P is in the ST, then m∠RST= ∠PST.	they are congruent SAS " -If 2 sides and 1 included angle of a triangle are congruent to		
					5 - Through any two point there exists exactly one line6 - A line contains at least two points		the 2 sides and angle of another triangle, then they are congruent ASA " -If 2 angles and an included side of a triangle are congruent to 2 angles and included side of anothe
					7 -If two lines intersection is	intersect, then their exactly at one point.	triangle, then they are congruent

8 - Through any three noncollinear points there exists exactly one plane

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All Postulates (cont)

AA Similarity "-If 2 angles of one triangle are congruent to 2 angles of another triangle, then they are similar

All Theorems
Right Angles Congruence "Theorem"-
Congruent Supplements "-
Congruent Complements " -
Vertical Angles \cong "-
Alternate Interior Angles " -
^ Exterior Angles " -
Consecutive Interior Angles " -
Alternate Interior Angles Converse -
^ Exterior Angles Converse -
Consecutive Interior Angle Converse -
Transitive Property of Parallel Lines -
Perpendicular Transversal-
Lines Perpendicular to a Transversal-
Triangle Sum -
Corollary -
Exterior Angle-
Third Angles-
Hypotenuse Leg Congruence-
AAS Congruence-
Base Angles-
Corollary -
Converse of the Base Angle -
Midsegment -
Perpendicular Bisector -
Converse of the Perpendicular Bisector -
Angle Bisector -

C

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