

## Geo Final Cheat Sheet by joseph54 via cheatography.com/28062/cs/8269/

6-1	
Polygon	the sum of the measures of
Angle Sum	the interior angles of an n-gon
Theorum	is (n-2)180 each vertex, is 260
Corollary to the Polygon Angle Sum theorem	The measure of each interior angle of a regular ngon is (n2)180/n
Polygon	The sum of the measures of
Exterior	the exterior angles of a
Angle Sum	polygon, one at each vertex,
theorem	is 360

Exterior Angle Sum theorem	the exterior angles of a polygon, one at each vertex, is 360
6-2	
Parallelo gram	quadrilateral with both pairs of opposite sides parallel
In a quadrilateral, opposite sides do not share a vertex and opposite angles do not share a side	
Theorem 6-3	If a quadrilateral is a parallelogram, then its opposite sides are congruent
Theorem 6-4	If a quadrilateral is a parallelogram, then its consecutive angles are supplementary

	6-3
of	Theo
ex,	6-8
	Theo 6-9
re a side	Theo 6-10
	Theo

heorem 6-7	If	Then
three (or more)	AB ∥ CD ∥ CF	BD ≅ DF
rallel lines cut off	and $\overline{AC} \simeq \overline{CE}$	
ongruent segments	and $AC \cong CE$	AA XB
n one transversal,	.4 > 0	ct xp
nen they cut off	A) B	
ongruent segments	ct D	ET X
every transversal.		+

6-3	
Theorem 6-8	If both pairs of opposite sides of a quadrilateral are congruent, then the quadrilateral is a parallelogram
Theorem 6-9	If an angle of a quadrilateral is supplementary to both its consecutive angles, then the quadrilateral is a parallelogram
Theorem 6-10	If both pairs of opposite angles of a quadrilateral are congruent, then the quadrilateral is a parallelogram
Theorem 6-11	If the diagonals of a quadrilateral bisect each other, then the quadrilateral is a parallelogram
Theorem 6-12	If one pair of opposite sides of a quadrilateral is both congruent and parallel, then the quadrilateral is a parallelogram

6-4	
Rhombus	parallelogram with 4 congruent sides
Square	parallelogram with 4 congruent sides and 4 right angles
Rectangle	parallelogram with 4 right angles
Theorem 6-13	If a parallelogram is a rhombus, then its diagonals are perpendicular
Theorem 6-14	If a parallelogram is a rhombus, then each diagonal bisects a pair of opposite angles
Theorem 6-15	If a parallelogram is a rectangle, then its diagonals are congruent
6-5	
Theorem 6-16	If the diagonals of a parallelogram are perpendicular, then the parallelogram is a rhombus
Theorem 6-17	If one diagonal of a parallelogram bisects a pair of opposite angles then the parallelogram is a rhombus
Theorem 6-18	If the diagonals of a parallelogram are congruent, then the parallelogram is a rectangle



6-5

Theorem

## By joseph54

bisect each other

Theorem If a quadrilateral is a

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parallelogram, then its opposite

parallelogram, then its diagonals

angles are congruent If a quadrilateral is a

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