Name:	Date:	Block:
Section 3	8.4: Angles of a Triangle	e Notes
A triangle is the figure formed by _	segments joining	noncollinear points.
Each of the points is a	of the triangle.	A
Vertices :Angles :		
The segments are theSides :	of the triangle.	B
Side is opposite ∠A.	Side AB is included betwe	Example: $\triangle ABC$
Side is opposite $\angle B$.	Side AC is included betwee	en \angle and \angle
Side is opposite \angle C.	Side BC is included betwe	en \angle and \angle
Triangles can be classified by		
 the number of congruent 	<i>sides</i> it has.	
Δ	Δ	Δ
No sides congruent.	Two sides congruent.	Three sides congruent.
\sum	1	\angle
their angles.		
Δ	ΔΔ	Δ
3 acute \angle s. One obt	use \angle . One right \angle .	All congruent ∠s.
\triangle	\geq	Δ
Theorem 3-11: The sum of the	e angles of a triangle is	
An angle is formed whether triangle is extended.	en one side of a	
The angle triangle not adjacent to the exterior	es are two angles of a angle.	λ

 Theorem 3-12:
 The measure of an ______ angle of a triangle equals the sum of the measures of the two ______ angles.

Complete the following.



2x°

100°

x°

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8) x = _____
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Find the values of x and y.

