Name :	Period :	Date :
Geometry (C) Exam	n #4	
Classifying Triangles		
1. Matching		
A	No Congruent Sides	A. Equilateral Triangle
В	Contains an angle greater than 90 degree	es B. Isosceles Triangle
С	At least two congruent angles	C. Scalene Triangle
D	A triangle with three 60 degree angles	D. Obtuse Triangle

2. Can a triangle have more than one obtuse angle? Why or why not?

Triangle Sum Theorem

3a. Solve for x.



3b. Solve for x.



3c. Solve for x, m, z, and y.



Exterior Angle Theorem Solve for x



4b.



5. This is a(n) ______ triangle. Label all the sides and angles.



6. Solve for x and y.



7. Is $\triangle ABC \cong \triangle PQR$? Explain your reasoning.



8. Given $\triangle ABC \cong \triangle STU$





9. The sides of $\triangle ABD$ are proportional to the sides of $\triangle CBE$. First solve for x. Then find the measurement of AC.

