

### 5.1 Angles of Triangles CYU

Use when you get it right all by yourself

**S** Use when you did it all by yourself, but made a silly mistake

**H** Use when you could do it alone with a little help from teacher or peer

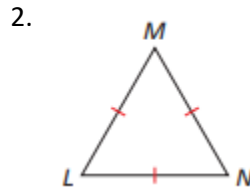
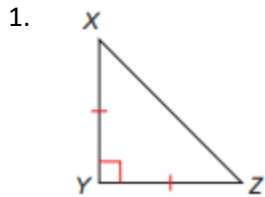
**G** Use when you completed the problem in a group

**X** Use when a question was attempted but wrong (get help)

**N** Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Classifying by sides	1		
Classifying by angles	2		
Distance formula		3, 4	
Slope formula	3, 4		
Triangle Sum Theorem	5 - 8	13, 14	15, 16
Exterior angle Theorem		9 - 12	
Spiral Review	17 - 20	17 - 20	17 - 20

Classify the triangle by its sides and by measuring its angles.

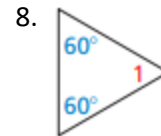
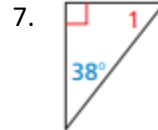
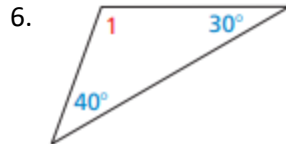
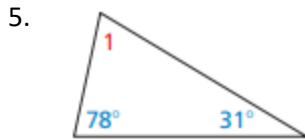


Classify  $\triangle ABC$  by its sides. Then determine if it is a right triangle.

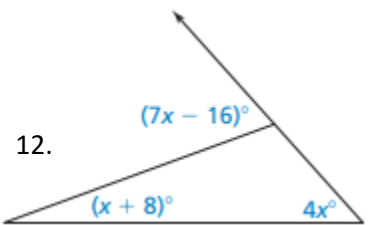
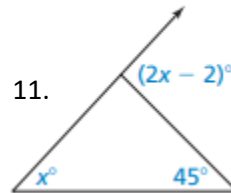
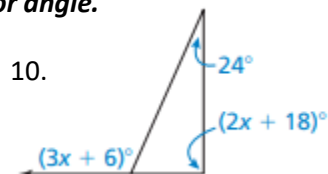
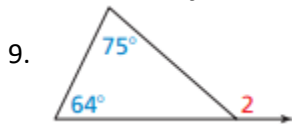
3.  $A(2, 3); B(6, 3); C(2, 7)$

4.  $A(3, 3); B(6, 9); C(6, -3)$

Find  $m\angle 1$ . Then classify the triangle by its angles.

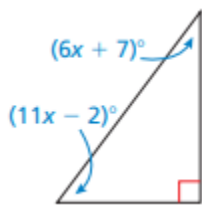


Find the measure of the exterior angle.

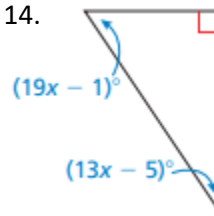


Find the measure of each acute angle.

13.



14.



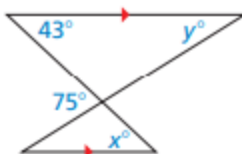
Find the measure of each acute angle in the right triangle.

15. The measure of one acute angle is 3 times the sum of the measure of the other acute angle and 8.

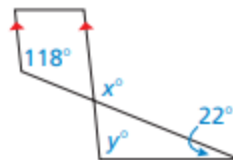
16. The measure of one acute angle is twice the difference of the measure of the other acute angle and 12.

Find the values of  $x$  and  $y$ .

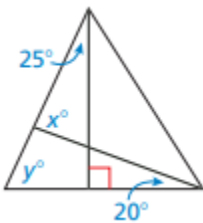
17.



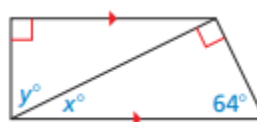
18.



19.



20.



CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

1	2	3	4	5	6	7	8
Basic		Intermediate			Advanced		Solved ALL!