

### 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

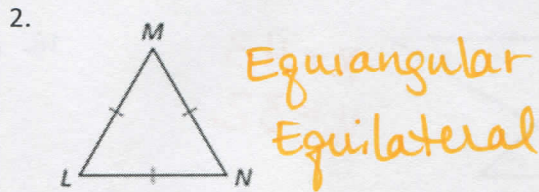
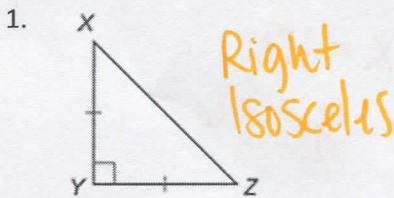
**G** Use when you completed the problem in a group

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

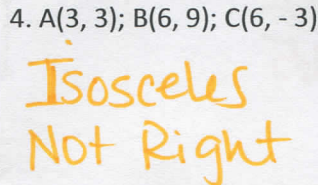
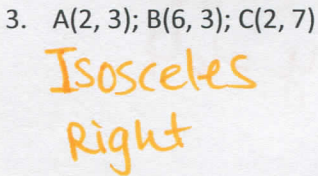
**N** Use when a question was not even attempted

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

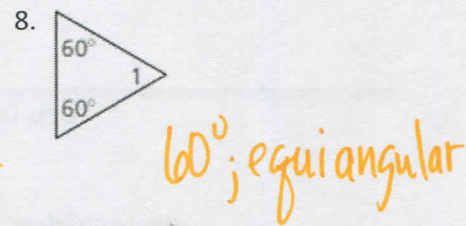
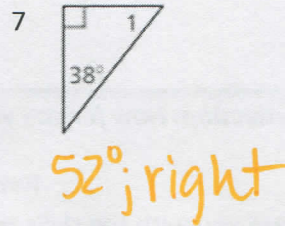
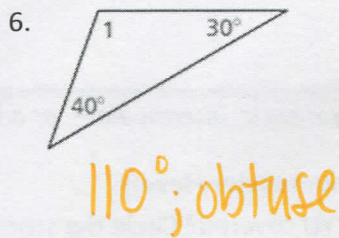
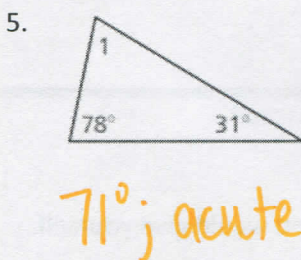
Classify the triangle by its sides and by measuring its angles.



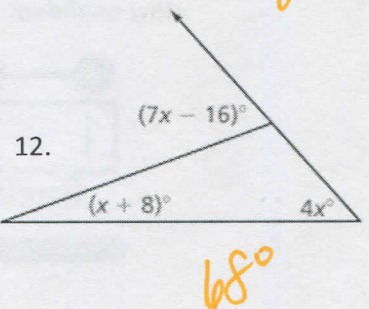
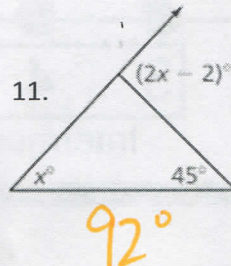
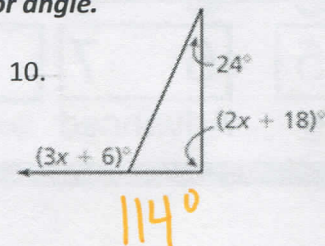
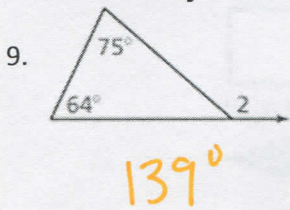
Classify  $\triangle ABC$  by its sides. Then determine if it is a right triangle.



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

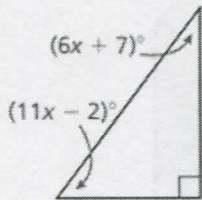


Find the measure of the exterior angle.



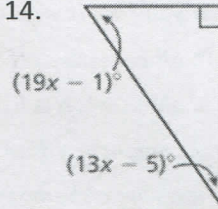
Find the measure of each acute angle.

13.



$37^\circ; 53^\circ$

14.



$34^\circ; 56^\circ$

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.

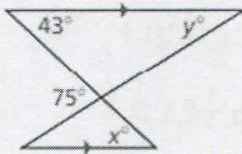
$16.5^\circ; 73.5^\circ$

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

$38^\circ; 52^\circ$

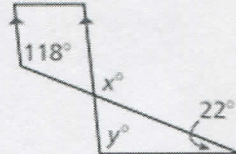
Find the values of  $x$  and  $y$ .

17.



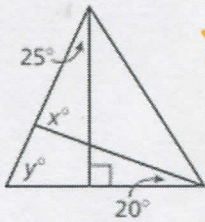
$x = 43$   
 $y = 32$

18.



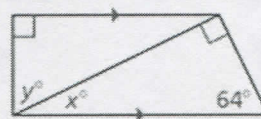
$x = 118$   
 $y = 96$

19.



$x = 85$   
 $y = 65$

20.



$x = 26$   
 $y = 64$

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!

