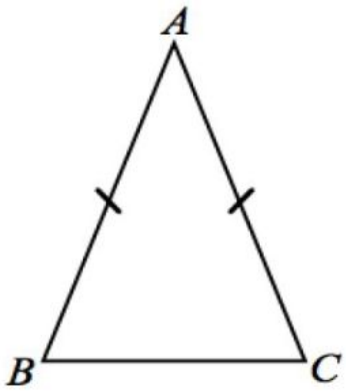
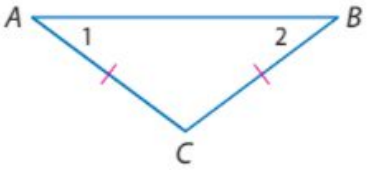
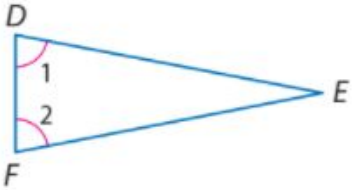
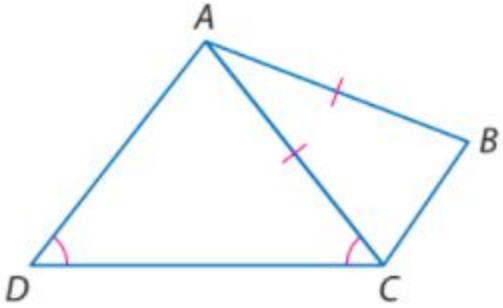


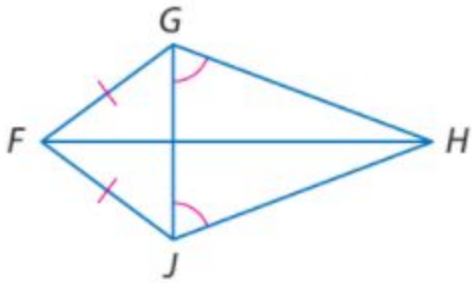
Isosceles Triangle Theorem	If two sides of a triangle are congruent, then the angles opposite those sides are congruent.	
Converse of Isosceles Triangle Theorem	If two angles of a triangle are congruent, then the sides opposite to those angles are congruent.	

1. Use the diagram below to answer the following questions:
   a. Name two unmarked congruent angles.



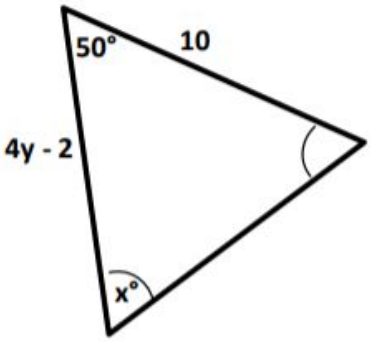
   b. Name two unmarked congruent sides.

2. Use the diagram below to answer the following questions:
   a. Name two unmarked congruent angles.

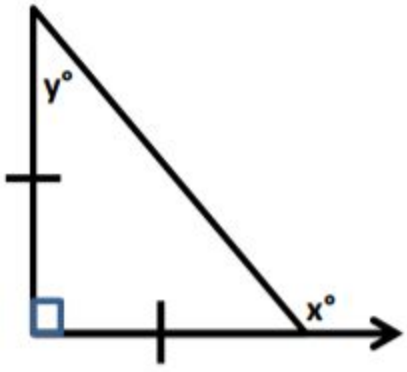


   b. Name two unmarked congruent sides.

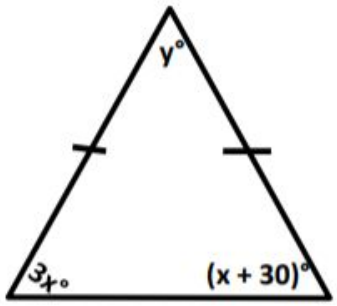
3. Solve for x and y
   a.



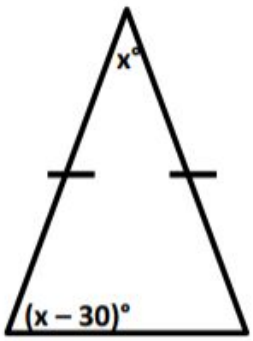
   b.



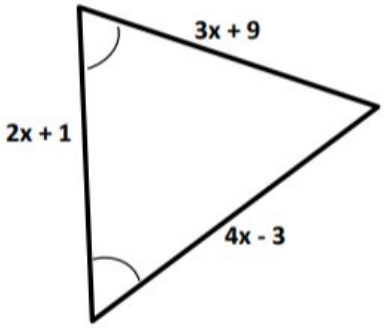
c.

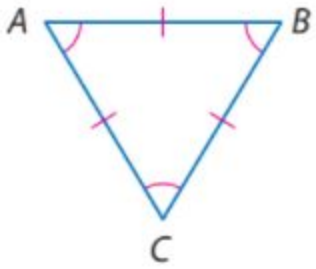
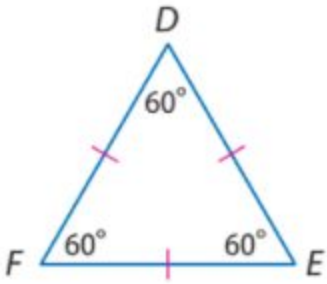


d.

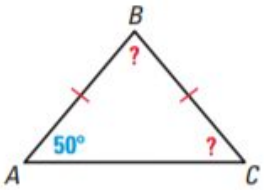


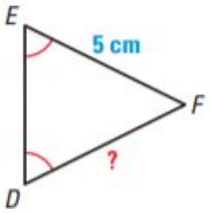
4. Solve for x

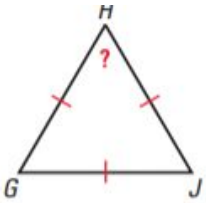


Equilateral Triangle Corollaries		
	A triangle is equilateral if and only if it is equiangular.	
	Each angle of an equilateral triangle is 60°	

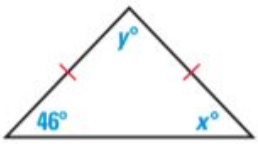
5. Find the unknown measures:

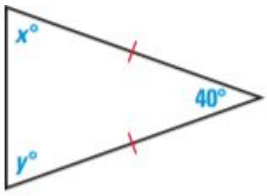


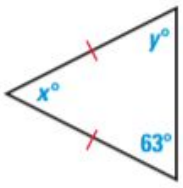


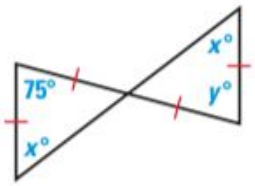


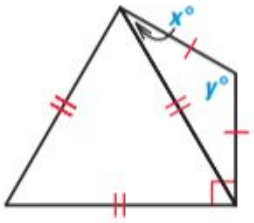
6. Solve for x and y:

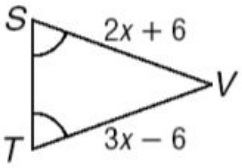


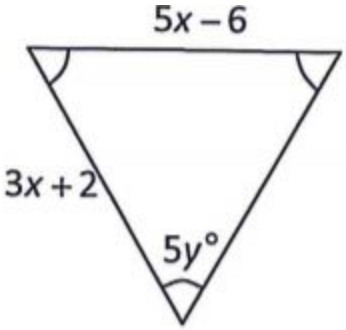


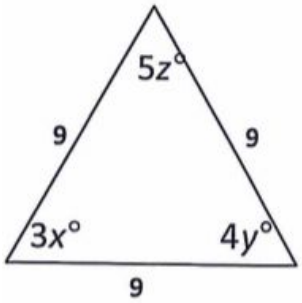



75°
x°
x°
y°


x°
y°


S
2x + 6
V
T
3x − 6


5x − 6
3x + 2
5y°


5z°
9
9
3x°
4y°
9