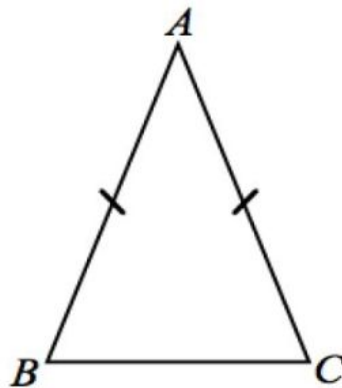
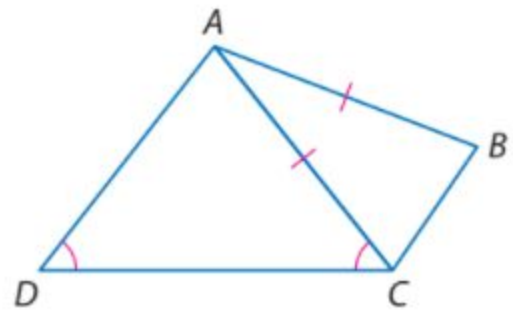


4.6 Isosceles and Equilateral Triangles



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

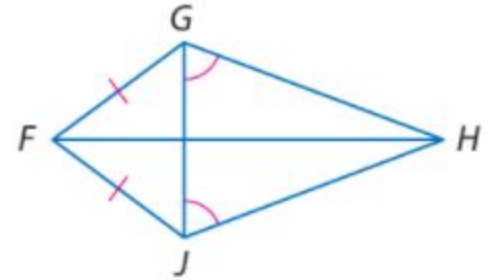
1. Use the diagram below to answer the following questions:
 - a. Name two unmarked congruent angles.



- b. Name two unmarked congruent sides.

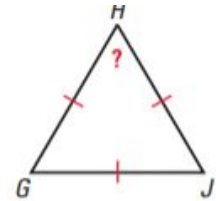
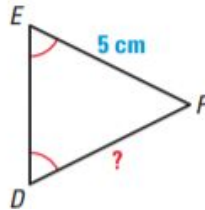
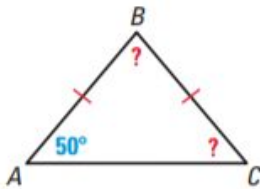
4.6 Isosceles and Equilateral Triangles

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

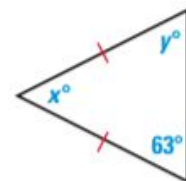
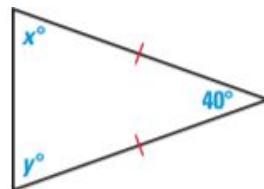
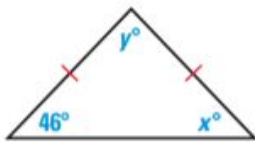


- b. Name two unmarked congruent sides.

3. Solve for x and y

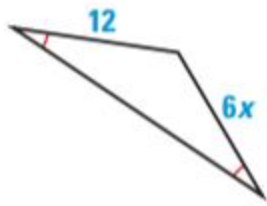


4. Solve for x and y :

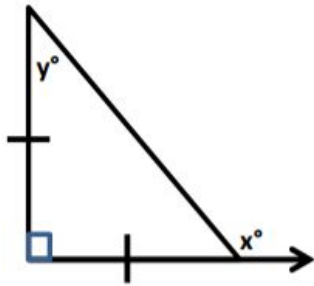


5. Solve for x and y .

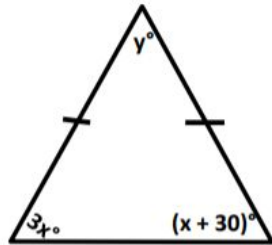
a.



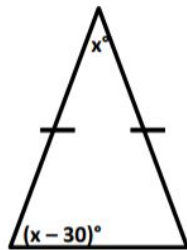
b.



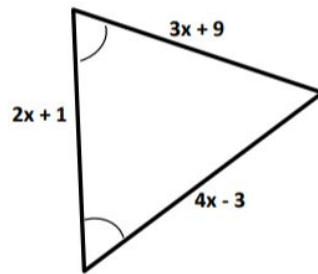
c.



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°	

6. Solve for the missing variables.

