## Warm Up

Classify each angle as acute, right, obtuse, or straight.

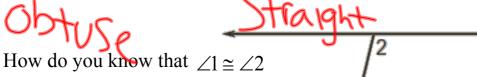
90° 1.



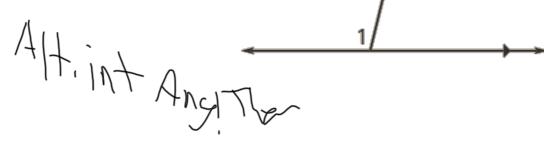
3. 1160



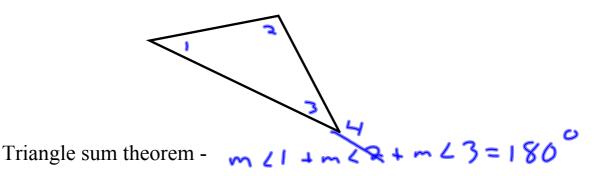
4.



5.



**Triangle Sum Properties** 4-1



Exterior angle theorem -  $m \leq 1 + m \leq 2 = m \leq 4$ 

## Classifying Triangles by Sides

Scalene

Isosceles

Equilateral







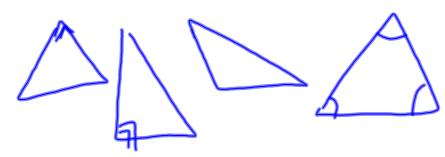
Classifying Triangles by Angles

Acute

Right

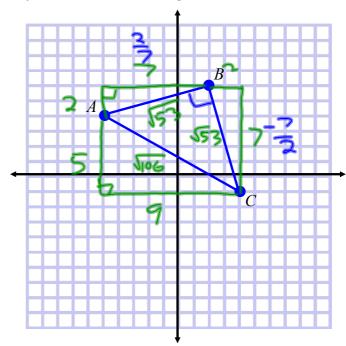
Obtuse

Equiangular

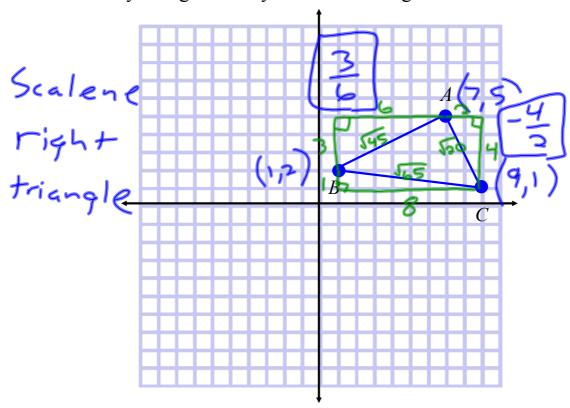


Ex 1 Classify triangle *ABC* by its sides and angles.

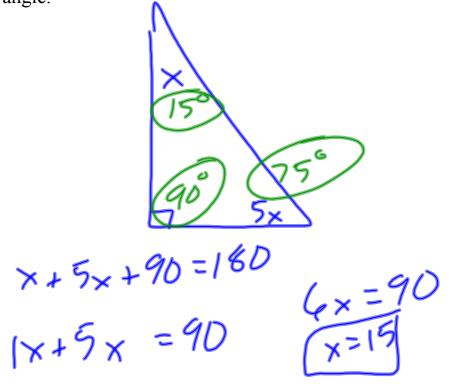
isosceles right triangle



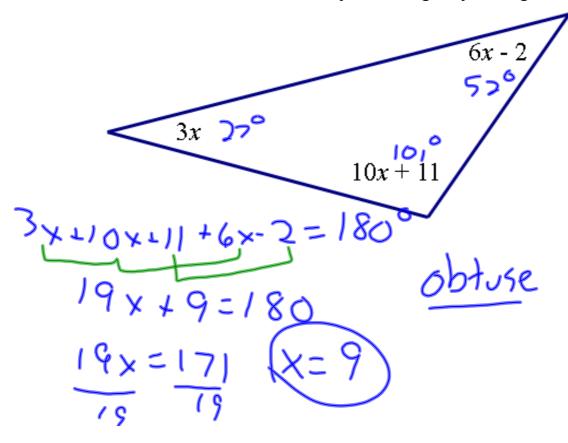
Ex 2 Classify triangle ABC by its sides and angles.

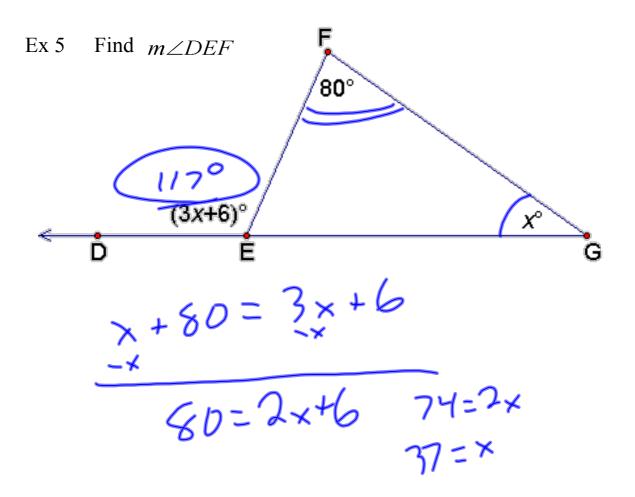


Ex. 3 In a right triangle, the measure of one acute angle is five times the measure of the other. Find the measure of each angle.



Ex. 4 Find the value of x. Then classify the triangle by its angles.





Ex 6 Find the measure of the exterior angle.

