Classifying Triangles

Classifying Triangles By Sides

Scalene - No sides are congruent



Isosceles - At least two sides are congruent



Equilateral - All sides are congruent



Classifying Triangles By Angles

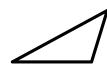
Acute - All angles are acute Right - One angle is right



Equiangular - All angles are congruent

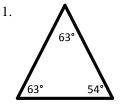


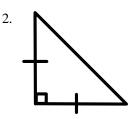


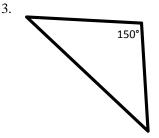




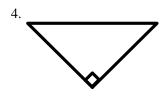
Directions: Classify the triangle by its angles and by its sides.

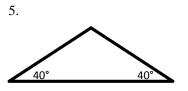


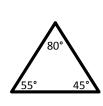




6.







Directions: Complete the statement using always, sometimes or never.

7. An isosceles triangle is ______ an equilateral triangle.

8. An obtuse triangle is ______ an isosceles triangle.

9. The acute angles of a right triangle are _____ complementary.

10. A triangle _____ has a right angle and an obtuse angle.

11. $\triangle ABC$ is an isosceles triangle and $\measuredangle B$ is the vertex. Find the length of each side if AB = 3x + 10, BC = 4x - 4 and AC = 6x.

12. $\triangle HOT$ is an equilateral triangle. Find the length of each side if $HO = \frac{1}{2}(x+4)$ and HT = 1.5x-4.

13. If A(-1,3), B(18,1) and C(2,-5), determine if $\triangle ABC$ is a right triangle.

