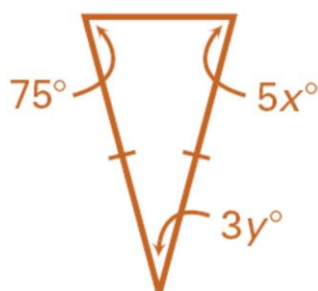


Name: _____

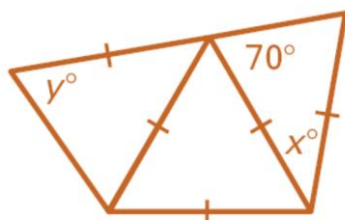
Classifying Triangles

Exercise 1: Solve for x and y .

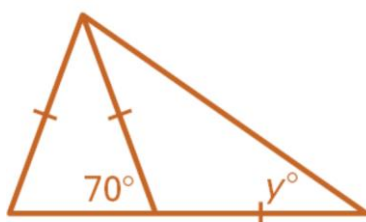
1)



2)



3)



Exercise 2: How many angles will be congruent if a triangle is equilateral?

Exercise 3: How many angles will be congruent if a triangle is isosceles?

Exercise 4: I have an obtuse angle and 2 equal sides. What am I?

Exercise 5: I have an acute angle and 3 equal sides. What am I?

Exercise 6: I have 3 acute angles and 2 sides the same length. What am I?

Exercise 7: I have all acute angles and 3 equal sides. What am I?

Exercise 8: $\triangle ABC$ is an isosceles triangle. $\angle C$ is the vertex angle. $AB = 4x - 14$ and $AC = x + 10$. Find the lengths of the legs.

Exercise 9: Given: A , B and C are three non collinear points such that $\overline{AC} \perp \overline{CB}$. Prove: $\triangle ABC$ is a right triangle.