

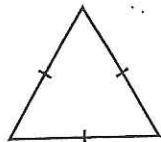
# Lesson 10.7 Triangles (by side)

Triangles can be classified by the number of congruent (equal) sides that they have.

No two sides are congruent in a **scalene triangle**.

At least two sides are congruent in an **isosceles triangle**.

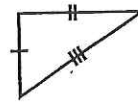
All three sides are congruent in an **equilateral triangle**.



equilateral



isosceles



scalene

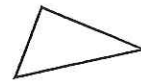
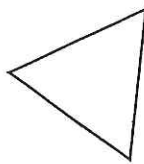
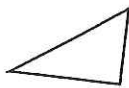
Use a ruler to measure each triangle. Write if it is equilateral, isosceles, or scalene.

a

b

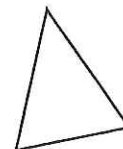
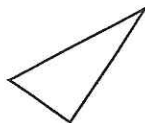
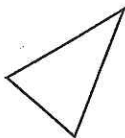
c

1.



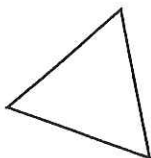
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2.



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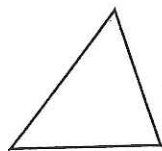
3.



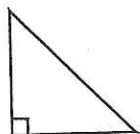
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# Lesson 10.6 Triangles (by angles)

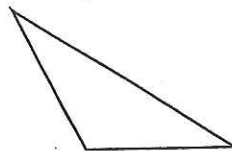
The sum of the measures of the angles of a triangle is always  $180^\circ$ . Two of the angles are always acute. The triangle can be classified by the measure of the third angle as **right**, **acute**, or **obtuse**.



acute triangle  
All angles are less than  $90^\circ$ .



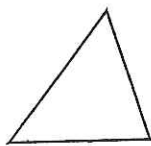
right triangle  
One angle is  $90^\circ$ .



obtuse triangle  
One angle is more than  $90^\circ$ .

Write whether each triangle is acute, right, or obtuse.

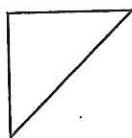
a



1.

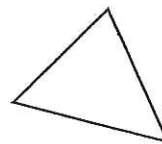
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b



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c



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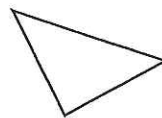
2.



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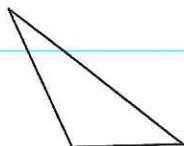


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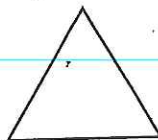


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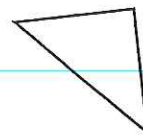
3.



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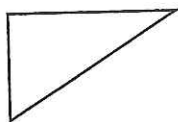


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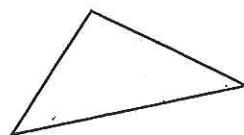


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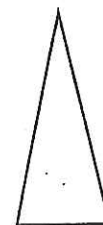
4.



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