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these angles the special nature of these triangles is their ability to yield exact answers instead of decimal approximations when dealing with trigonometric functions this page will deal with the  $30^\circ$   $60^\circ$   $90^\circ$  triangle rule 1 interior angles sum up to  $180^\circ$  rule 2 sides of triangle triangle inequality theorem this theorem states that the sum of the lengths of any 2 sides of a triangle must be greater than the third side obtuse angled right angled six types of triangles triangles can be broadly classified into two types which are triangles based on the lengths of their sides triangles based on their interior angles these two triangle types are explained here along with their further classifications

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