5.3 Medians and Altitudes of Triangles

Median - a line that goes from the angle through the midpoint of the segment on the opposite side

medians have a point of concurrency called the Centroid

The distance of the medians special based on the location of the Centroid

The medians of a triangle intersect at a point that is 23 the distance of the median

 $AC = \frac{2}{3}AB$ $CB = \frac{1}{3}AB$ DE = 15

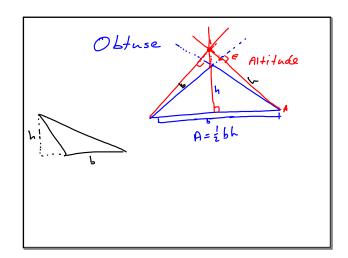
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Altitudes Can occur outside, inside
or on a side of the triangle
segment from an angle to
a point that is perpendicular
on the opposite side
Not median

En a right Δ the point of concurrency of altitudes is at the vight angle

Acute A

In acute D's point
of concurrency occurs
inside the D's



The point of concurrency for altitudes is called the orthecenter Altitudes Than The altitudes of a triangle will intersect at a point that is inside, outside or on the a

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