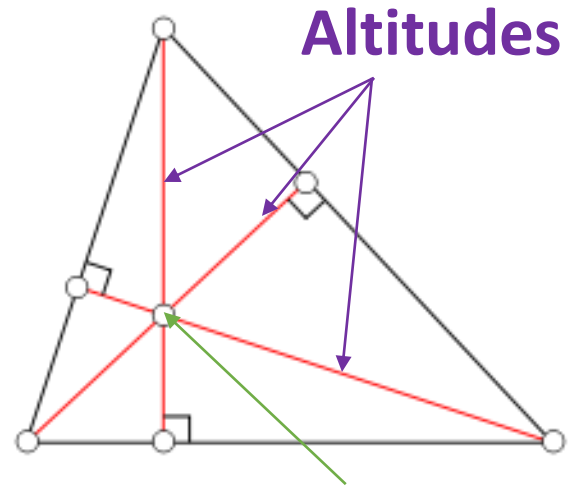


# Altitude and Orthocenter

**Altitude:** A line segment through the vertex and it's perpendicular to the base of the triangle that contains it.

**Orthocenter:** The point of intersection of the altitudes

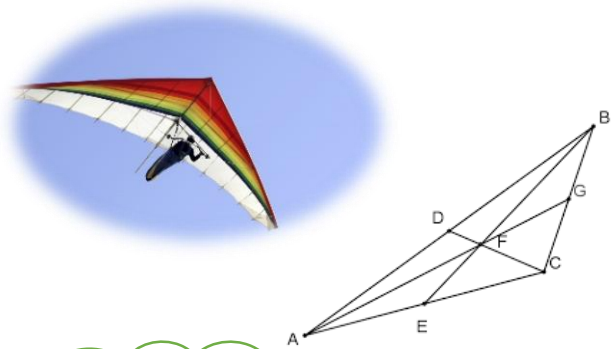


**Orthocenter**

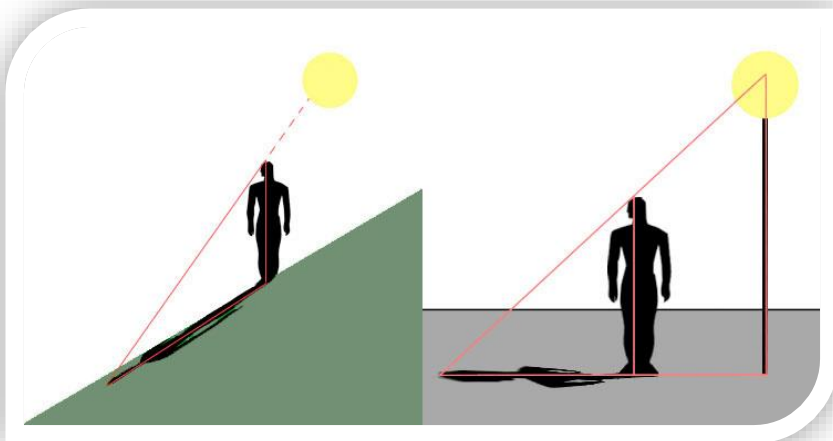
Want to see a power point to help explain?

<https://prezi.com/b9kdrqth47j/geometry/>

A man is designing a new shape for hang gliders. The glide itself will be an obtuse triangle, and he uses the orthocenter of the glide, which will be outside the triangle, to make sure the cords descending down from the glide to the rider are an even length, connecting at one point of concurrency.



<https://sites.google.com/site/themathematicsbehinddoritos/real-life-examples>



To determine the height of this man, you need to determine the altitude.