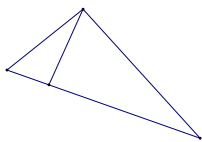


## ORTHOCENTER:

1. Draw triangle  $ABC$  with  $A(7,11)$ ,  $B(4,0)$ ,  $C(-8,8)$ .
2. Find the slope of each side. Then find the slope of the line that is **perpendicular** to each side.
3. Draw a line through each side of the triangle that is perpendicular to that side and goes through the opposite vertex.
4. Find the point of concurrency.

Using the slope of the **perpendicular**, start at the **vertex** opposite the side, count out the rise and run from that vertex to the side. You will have a graph that looks something like this:



When you have completed all three altitudes—if your diagram is correct—they should meet at one point. This is called the **ORTHOCENTER**.

