

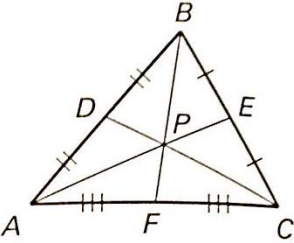

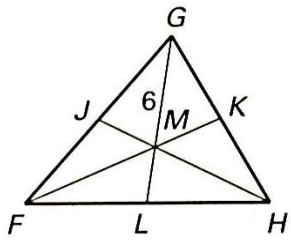
## Video Notes: 5.4 Medians and Altitudes

**Aim#49:** How can we use our knowledge of medians and altitudes to describe the centroid and orthocenter of a triangle?

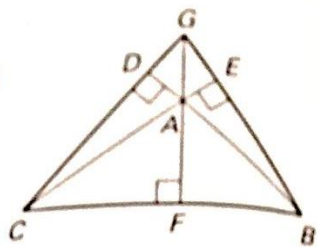
- Learning Target(s):** I am able to identify and use the median and altitude of a triangle.  
 I am able to identify and use the centroid of a triangle to solve problems.  
 I am able to identify and use the orthocenter of a triangle to solve problems.



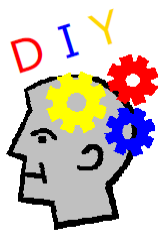
As you are watching the video and taking notes, please make sure to write down any questions you have

Guiding Questions	Notes/Diagrams/Illustrations
<p>What is a median?</p>  <p>Describe the concurrency of medians of a triangle</p>   <p>How can we solve problems using the centroid?</p>  <p>What is an altitude?</p>  	<p>a _____ from a _____ to the _____ of the opposite _____</p>  <p>The _____ of a triangle intersect at a _____ that is _____ of the distance from each _____ to the _____ of the opposite side.</p>  <p>The medians of <math>\triangle ABC</math> meet at _____ and <math>AP =</math> _____, <math>BP =</math> _____, <math>CP =</math> _____.</p>  <p>1. In <math>\triangle FGH</math>, <math>M</math> is the centroid and <math>GM = 6</math>. Find <math>ML</math> and <math>GL</math>.</p>   <p>2. Suppose <math>FM = 10</math>. Find <math>MK</math> and <math>FK</math>.</p>

Describe the concurrency of altitudes of a triangle



How can we solve problems using the orthocenter?

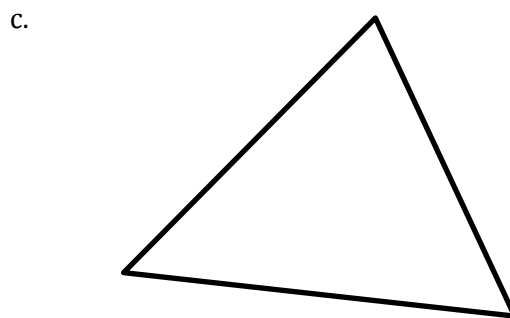
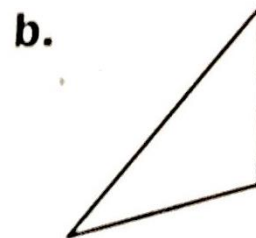
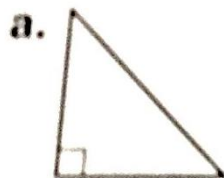


the \_\_\_\_\_ segment from a \_\_\_\_\_ to the opposite \_\_\_\_\_  
or to the line that contains the opposite \_\_\_\_\_

The \_\_\_\_\_ containing the \_\_\_\_\_ of a triangle are  
\_\_\_\_\_.

The lines containing \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ meet at \_\_\_\_\_.

Find the orthocenter  $P$  in the triangle.



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