Geometry 5.2 Construct median of a triangle Identify and use triangle medians Identify and use triangle altitudes

perpendicular bisector (sides) angle bisector median

altitude centroid orthocenter

activity: little book

constructions

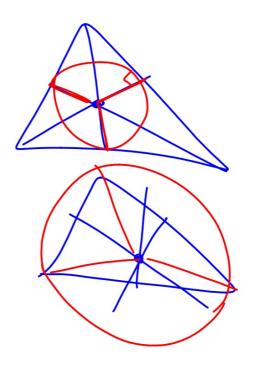
cardboard centroids

5.1 Point of concurrency (POC)

POC:

Angle bisectors (incenter)
Center of inscribed circle
Equidistant from sides (perp)

Perp bisectors (circumcenter)
 Center of circumscribed circle
 Equidistant from vertices







Follow directions:

Title: Triangle Book (your name)

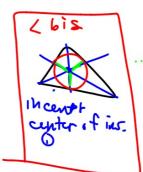
(inside pages)

- perpendicular bisector
- angle bisector
- ·median
- ·altitude

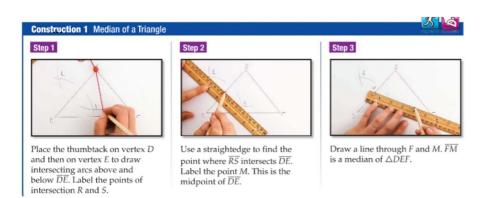




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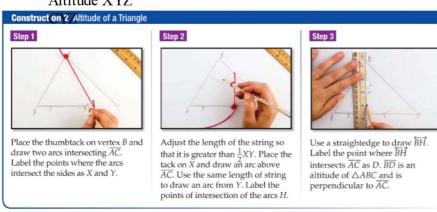


Triangle GKF

median-connects mp tovortex (Po() = centroid Find the midpoint of a side Connect by folding: midpoint and opposite angle.

centroid

Altitude XYZ



Fold a side (through a vertex) so that segments line up.

Poc, orthocenter

Triangle centroid activity

Use a ruler and protractor (if necessary) to draw a triangle on a piece of cardboard.

The triangle should be acute. Make it as large as possible.

(Each side of the triangle should be between 4 and 6 inches in length.)

Cut out the triangle

Measure and mark the midpoint of each side. Be as precise as possible.(mm)

Draw the median from each angle. The point of concurrency is the centroid.

