Monday, January 22, 2018 9:30 AM

What You Will Learn

Use medians and find the centroids of triangles.

Circumentari-equidistant to each Vartey of D

= Point of Co-correcce (How it is created)

Loisectors

- Canbe in on, or outside D

Theateri-Alweys in side D

- equidistant to each stock of D

- Point of Co-correcce (Hew it is used)

Angle bisectors

Using the Median of a Triangle

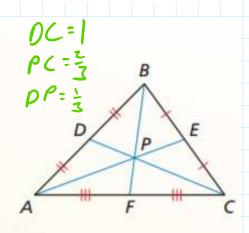
A **median of a triangle** is a segment from a vertex to the midpoint of the opposite side. The three medians of a triangle are concurrent. The point of concurrency, called the **centroid**, is inside the triangle.

Theorem 6.7 Centroid Theorem

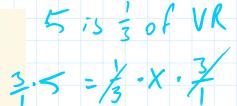
The centroid of a triangle is two-thirds of the distance from each vertex to the midpoint of the opposite side.

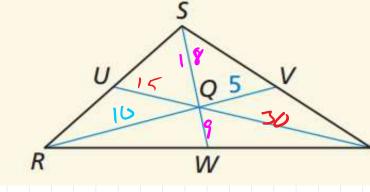
The medians of $\triangle ABC$ meet at point P, and $AP = \frac{2}{3}AE$, $BP = \frac{2}{3}BF$, and $CP = \frac{2}{3}CD$.

Proof BigIdeasMath.com



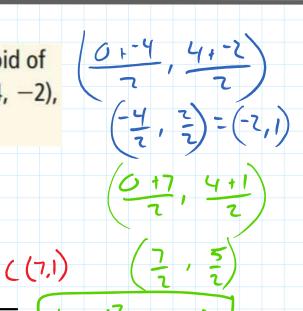
In $\triangle RST$, point Q is the centroid, and VQ = 5. Find RQ and RV.

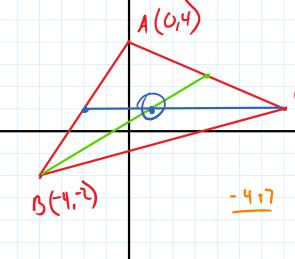




SW= 27

Find the coordinates of the centroid of $\triangle ABC$ with vertices A(0, 4), B(-4, -2), and C(7, 1).





(x,-x,)2 -(x,-y,)2) Centroid ABC=(1,1)

