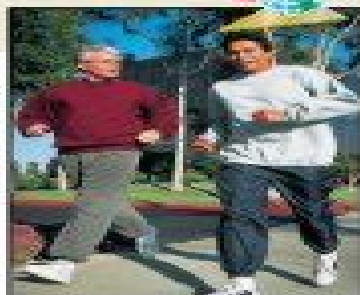


5.3

Medians and Altitudes of a Triangle

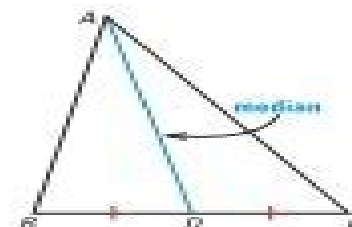
*What you should learn***GOAL 1** Use properties of medians of a triangle.**GOAL 2** Use properties of altitudes of a triangle.*Why you should learn it*

▼ To solve real-life problems, such as locating points in a triangle used to measure a person's heart fitness as in Exs. 30–33.

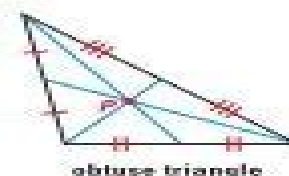
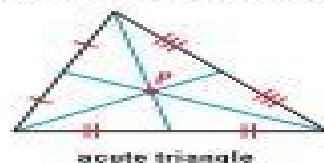
**GOAL 1** USING MEDIANS OF A TRIANGLE

In Lesson 5.2, you studied two special types of segments of a triangle: perpendicular bisectors of the sides and angle bisectors. In this lesson, you will study two other special types of segments of a triangle: *medians* and *altitudes*.

A **median of a triangle** is a segment whose endpoints are a vertex of the triangle and the midpoint of the opposite side. For instance, in $\triangle ABC$ shown at the right, D is the midpoint of side BC . So, AD is a median of the triangle.



The three medians of a triangle are concurrent. The point of concurrency is called the **centroid of the triangle**. The centroid, labeled P in the diagrams below, is always inside the triangle.

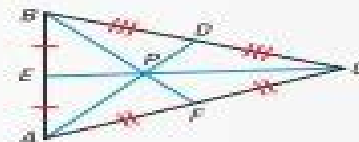


The medians of a triangle have a special concurrency property, as described in Theorem 5.7. Exercises 13–16 ask you to use paper folding to demonstrate the relationships in this theorem. A proof appears on pages 836–837.

THEOREM**THEOREM 5.7** *Concurrency of Medians of a Triangle*

The medians of a triangle intersect at a point that is two thirds of the distance from each vertex to the midpoint of the opposite side.

If P is the centroid of $\triangle ABC$, then
 $AP = \frac{2}{3}AD$, $BP = \frac{2}{3}BF$, and $CP = \frac{2}{3}CE$.



The centroid of a triangle can be used as its balancing point, as shown on the next page.

Lesson 5 3 Medians And Altitudes Of Triangles

Jessica J Manson



Lesson 5 3 Medians And Altitudes Of Triangles:

Enjoying the Tune of Expression: An Mental Symphony within **Lesson 5 3 Medians And Altitudes Of Triangles**

In some sort of used by screens and the ceaseless chatter of quick conversation, the melodic beauty and psychological symphony produced by the prepared word frequently disappear into the background, eclipsed by the constant sound and interruptions that permeate our lives. Nevertheless, located within the pages of **Lesson 5 3 Medians And Altitudes Of Triangles** a charming fictional treasure filled with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this interesting masterpiece conducts visitors on an emotional journey, well unraveling the concealed melodies and profound influence resonating within each cautiously crafted phrase. Within the depths with this touching assessment, we can investigate the book is central harmonies, analyze its enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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