

5.3

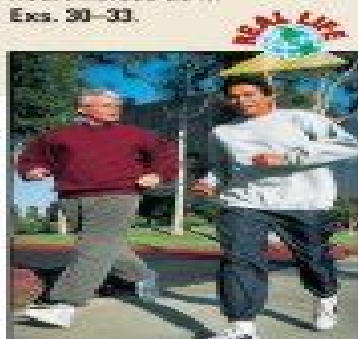
What you should learn

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.

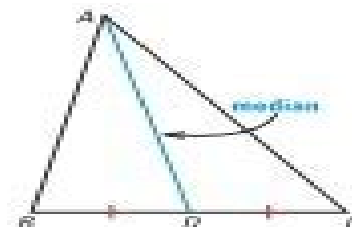


Medians and Altitudes of a Triangle

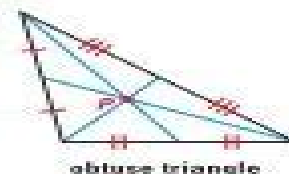
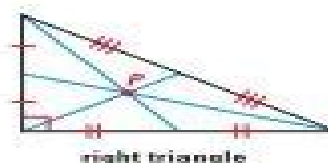
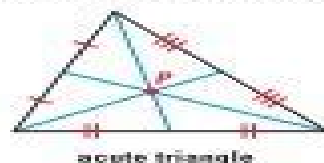
GOAL 1 USING MEDIANS OF A TRIANGLE

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.



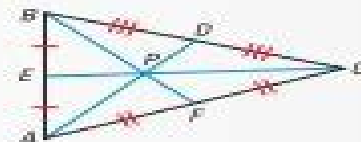
The medians of a triangle have a special concurrency property, as described in Theorem 5.7. Exercises 13–16 ask you to use paper folding to demonstrate the relationships in this theorem. A proof appears on pages 836–837.

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.

Medians And Altitudes Of Triangles 5 3 Answers

KJ Lindholm-Leary



Medians And Altitudes Of Triangles 5 3 Answers:

Medians And Altitudes Of Triangles 5 3 Answers Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Medians And Altitudes Of Triangles 5 3 Answers**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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