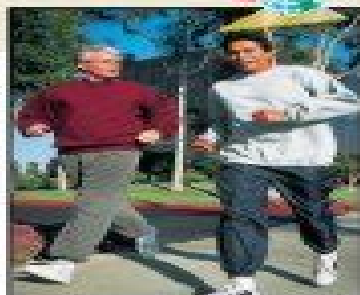


5.3

Medians and Altitudes of a Triangle

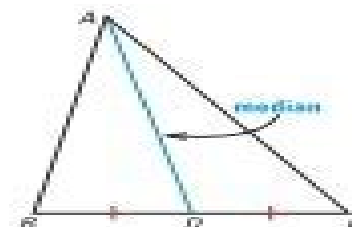
*What you should learn***GOAL 1** Use properties of medians of a triangle.**GOAL 2** Use properties of altitudes of a triangle.*Why you should learn it*

▼ 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.

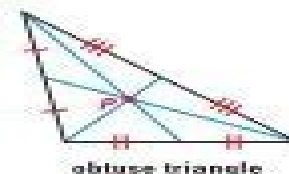
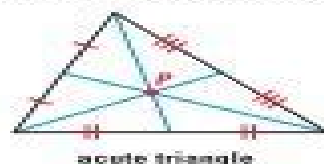
**GOAL 1** USING MEDIANS OF A TRIANGLE

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.

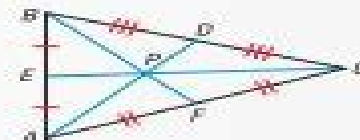


The medians of a triangle have a special concurrency property, as described in Theorem 5.7. Exercises 13–16 ask you to use paper folding to demonstrate the relationships in this theorem. A proof appears on pages 836–837.

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

Christopher M. Freeman



Lesson 5 3 Medians And Altitudes Of Triangles:

TI-Nspire Strategies: Geometry Aimee L. Evans, Pamela H. Dase, 2008-10-01 Integrate TI graphing calculator technology into math instruction Includes lessons problem solving practice and step by step instructions **Merrill Informal Geometry: Teacher annotated ed** Jerry Cummins, 1988 **Merrill Geometry** MERRILL, 1994-05 *Prentice Hall Informal Geometry* Philip L. Cox, 1992 **Geometry Iii Tm' 2001 Ed. ,** *Foundations and Applications Geometry Iii' 99 Ed. ,* **Geometry, Study Guide and Intervention Workbook** McGraw Hill, 2006-08-07 Study Guide and Intervention Practice Workbook provides vocabulary key concepts additional worked out examples and exercises to help students who need additional instruction or who have been absent **Hands-On Geometry** Christopher M. Freeman, 2021-09-09 Put compasses into your students hands and behold the results Hands On Geometry teaches students to draw accurate constructions of equilateral triangles squares and regular hexagons octagons and dodecagons to construct kites and use their diagonals to construct altitudes angle bisectors perpendicular bisectors and the inscribed and circumscribed circles of any triangle to construct perpendicular lines and rectangles parallel lines and parallelograms and to construct a regular pentagon and a golden rectangle Students will enjoy fulfilling high standards of precision with these hands on activities Hands On Geometry provides the background students need to become exceptionally well prepared for a formal geometry class The book provides an easy way to differentiate instruction Because the lessons are self explanatory students can proceed at their own pace and the finished constructions can be assessed at a glance Grades 4 6 **Geometry** Ron Larson, 1995 *New Jersey HSPA Geometry Workbook* Mel Friedman, 2013-06-05 Many students continue to struggle in high school math courses because they failed to master the basic mathematical skills REA s new Ready Set Go Workbook series takes the confusion out of math helping students raise their grades and score higher on important exams including the NJ HSPA What makes REA s workbooks different For starters students will actually like using them Here s why Math is explained in simple language in an easy to follow style The workbooks allow students to learn at their own pace and master the subject More than 20 lessons break down the material into the basics Each lesson is fully devoted to a key math concept and includes many step by step examples Paced instruction with drills and quizzes reinforces learning The innovative Math Flash feature offers helpful tips and strategies in each lesson including advice on common mistakes to avoid Skill scorecard measures the student s progress and success Every answer to every question in every test is explained in full detail A final exam is included so students can test what they ve learned When students apply the skills they ve mastered in our workbooks they can do better in class raise their grades and score higher on the all important HSPA Some of the math topics covered in the Geometry Workbook include Basic Properties of Points Rays Lines and Angles Measuring Line Segments and Angles Perimeter of Polygons Triangles Circles Quadrilaterals and more Whether used in a classroom for home or self study or with a tutor this workbook gets students ready for important math tests and exams set to take on new challenges and helps them

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Table of Contents Lesson 5 3 Medians And Altitudes Of Triangles

1. Understanding the eBook Lesson 5 3 Medians And Altitudes Of Triangles
 - The Rise of Digital Reading Lesson 5 3 Medians And Altitudes Of Triangles
 - Advantages of eBooks Over Traditional Books
2. Identifying Lesson 5 3 Medians And Altitudes Of Triangles
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lesson 5 3 Medians And Altitudes Of Triangles
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lesson 5 3 Medians And Altitudes Of Triangles
 - Personalized Recommendations
 - Lesson 5 3 Medians And Altitudes Of Triangles User Reviews and Ratings
 - Lesson 5 3 Medians And Altitudes Of Triangles and Bestseller Lists
5. Accessing Lesson 5 3 Medians And Altitudes Of Triangles Free and Paid eBooks

- Lesson 5 3 Medians And Altitudes Of Triangles Public Domain eBooks
 - Lesson 5 3 Medians And Altitudes Of Triangles eBook Subscription Services
 - Lesson 5 3 Medians And Altitudes Of Triangles Budget-Friendly Options
6. Navigating Lesson 5 3 Medians And Altitudes Of Triangles eBook Formats
 - ePub, PDF, MOBI, and More
 - Lesson 5 3 Medians And Altitudes Of Triangles Compatibility with Devices
 - Lesson 5 3 Medians And Altitudes Of Triangles Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lesson 5 3 Medians And Altitudes Of Triangles
 - Highlighting and Note-Taking Lesson 5 3 Medians And Altitudes Of Triangles
 - Interactive Elements Lesson 5 3 Medians And Altitudes Of Triangles
 8. Staying Engaged with Lesson 5 3 Medians And Altitudes Of Triangles
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lesson 5 3 Medians And Altitudes Of Triangles
 9. Balancing eBooks and Physical Books Lesson 5 3 Medians And Altitudes Of Triangles
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lesson 5 3 Medians And Altitudes Of Triangles
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Lesson 5 3 Medians And Altitudes Of Triangles
 - Setting Reading Goals Lesson 5 3 Medians And Altitudes Of Triangles
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Lesson 5 3 Medians And Altitudes Of Triangles
 - Fact-Checking eBook Content of Lesson 5 3 Medians And Altitudes Of Triangles
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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