

# BISECTORS, MEDIANS, ALTITUDES

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## Big Picture

Within a given triangle, there are many theorems involving bisectors, medians, and altitudes. Recall that a bisector is a line segment or line that divides a geometric shape into two congruent shapes. A median is a line segment that divides a triangle by joining a vertex to the midpoint of the opposite side. An altitude is a line segment that joins the vertex of a triangle perpendicularly to the opposite side.

## Key Terms

**Midsegment:** The segment that joins the midpoints of a pair of sides of a triangle.

**Perpendicular Bisector:** A line, ray, or segment that passes through the midpoint of a segment and intersects that segment at a right angle.

**Equidistant:** The same distance from one figure as from another figure.

**Median:** A line segment drawn from one vertex of a triangle to the midpoint of the opposite side.

**Altitude:** A line segment drawn from a vertex of the triangle and is perpendicular to the other side.

**Point of Concurrence:** The point where three or more lines intersect.

**Circumcenter:** The point of concurrency for the perpendicular bisectors of the sides of a triangle.

**Incenter:** The point of concurrency for the angle bisectors of a triangle.

**Centroid:** The point of concurrency for the medians of a triangle.

**Orthocenter:** The point of concurrency for the altitudes of a triangle.

## Slope of a Line

For every triangle, there are three **midsegments**.

Furthermore,  $DF \parallel AC$ ,  $DE \parallel BC$ ,  $FE \parallel BA$ .



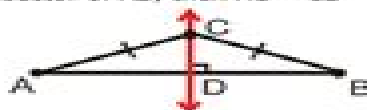
**Midsegment Theorem:** The midsegment of a triangle is half the length of the side it is parallel to.

- $DF$  is half of  $AC$ ,  $DE$  is half of  $BC$ ,  $FE$  is half of  $BA$ .

## Perpendicular Bisectors

**Perpendicular Bisector Theorem:** If a point is on the **perpendicular bisector** of a segment, then it is **equidistant** from the endpoints of the segment.

- If  $\overleftrightarrow{CD}$  is the  $\perp$  bisector of  $AB$ , then  $AC = CB$ .

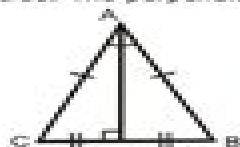


**Converse of the Perpendicular Bisector Theorem:** If a point is equidistant from the endpoints of a segment, then the point is on the perpendicular bisector of the segment.

## Isosceles Triangles

**Isosceles Perpendicular Bisector Theorem:** The angle bisector of the vertex angle in an isosceles triangle is the perpendicular bisector to the base.

- The converse is also true: The perpendicular bisector of the base of an isosceles triangle is the angle bisector of the vertex angle.



This is not true for any angle other than the vertex angle!

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## **Table of Contents Study Guide And Intervention Bisectors Medians Altitude**

1. Understanding the eBook Study Guide And Intervention Bisectors Medians Altitude
  - The Rise of Digital Reading Study Guide And Intervention Bisectors Medians Altitude
  - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide And Intervention Bisectors Medians Altitude
  - 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 Study Guide And Intervention Bisectors Medians Altitude
  - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide And Intervention Bisectors Medians Altitude

- Personalized Recommendations
- Study Guide And Intervention Bisectors Medians Altitude User Reviews and Ratings
- Study Guide And Intervention Bisectors Medians Altitude and Bestseller Lists
- 5. Accessing Study Guide And Intervention Bisectors Medians Altitude Free and Paid eBooks
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  - Study Guide And Intervention Bisectors Medians Altitude Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Study Guide And Intervention Bisectors Medians Altitude
  - Highlighting and Note-Taking Study Guide And Intervention Bisectors Medians Altitude
  - Interactive Elements Study Guide And Intervention Bisectors Medians Altitude
- 8. Staying Engaged with Study Guide And Intervention Bisectors Medians Altitude
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Study Guide And Intervention Bisectors Medians Altitude
- 9. Balancing eBooks and Physical Books Study Guide And Intervention Bisectors Medians Altitude
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Study Guide And Intervention Bisectors Medians Altitude
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide And Intervention Bisectors Medians Altitude
  - Setting Reading Goals Study Guide And Intervention Bisectors Medians Altitude
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide And Intervention Bisectors Medians Altitude

- Fact-Checking eBook Content of Study Guide And Intervention Bisectors Medians Altitude
- 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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