

## Chapter 6: Relationships Within Triangles

### Part 1: Points of Concurrency

#### Theorems:

- **6.1: Perpendicular Bisector Theorem:** In a plane, if a point lies on the perpendicular bisector of a segment, then it is equidistant from the endpoints of that segment.
  - **6.2: Converse of the Perpendicular Bisector Theorem:** In a plane, if a point is equidistant from the endpoints of a segment, then it lies on the perpendicular bisector of that segment.
- **6.3: Angle Bisector Theorem:** If a point lies on an angle bisector, then it is equidistant from the two sides of that angle.
  - **6.4: Converse of the Angle Bisector Theorem:** If a point is equidistant from the sides of an angle, then it lies on its angle bisector.
- **6.5: Circumcenter Theorem:** The circumcenter of a triangle is equidistant from the vertices of the triangle.
- **6.6: Incenter Theorem:** The incenter of a triangle is equidistant from the sides of the triangle.
- **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.

#### Vocabulary:

- **Equidistant:** equal in distance from two or more points.
- **Concurrent:** (of three or more lines, rays, and/or segments) intersecting at one fixed point.
- **Point of Concurrency:** the point of intersection of three or more lines, rays, and/or segments.
  - **Circumcenter:** the point of concurrency of the three **perpendicular bisectors** of a triangle.
  - **Orthocenter:** the point of concurrency of the three **lines containing the altitudes** of a triangle.
    - **Altitude of a triangle:** a segment perpendicular to a **side** of a triangle that runs to the **vertex opposite** of that side.
  - **Incenter:** the point of concurrency of the three **angle bisectors** of a triangle.
  - **Centroid:** the point of concurrency of the three **medians** of a triangle.
    - **Median of a triangle:** a segment that runs from a **vertex** of a triangle to the **midpoint of the opposite side**.

# Accelerated Geometry Study Guide

**Léo Pomar**



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web week i vectors 3 problems for lecture 1 1 show graphically that vector addition is associative that is 2 using vectors prove that the line segment joining the midpoints of two sides of a triangle is parallel to the third side and half its length solutions to the problems

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web recognizing vectors practice equivalent vectors finding the components of a vector comparing the components of vectors practice vectors intro 4 questions components of vectors from endpoints 4 questions

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web opening chapters define vector addition and subtraction show how to resolve and determine the direction of two or more vectors and explain systems of coordinates vector equations of a plane and straight line relative velocity and

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web components of vectors for the analytical method of vector addition and subtraction we use some simple geometry and trigonometry instead of using a ruler and protractor as we did for graphical methods however the graphical method will still come in handy to visualize the problem by drawing vectors using the head to tail method

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web numerically the solution is dab d0 db da i10 i5 j2 i3 j3 i12 j5 6 find the unit vectors that point from a to the other points b to g in question 2 express each vector in component ij notation

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web 2 review of vector analysis electromagnetic field theory is the study of forces between charged particles resulting in energy conversion or signal transmission and reception these forces vary in magnitude and direction with time and throughout space so that the theory is a heavy user of vector differential and integral calculus