Online Videos

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| Ch. 5 Relationships within Triangles |
| 5.1 Midsegment Theorem and Coordinate Proof | [What is the Triangle Midsegment Theorem?](http://www.virtualnerd.com/geometry/triangle-relationships/midsegments/triangle-midsegment-theorem) |
| 5.2 Use Perpendicular Bisectors | [What is a Perpendicular Bisector?](http://www.virtualnerd.com/geometry/triangle-relationships/perpendicular-angle-bisectors/perpendicular-bisector-definition)[How Can You Tell if a Point is on the Perpendicular Bisector of a Line Segment?](http://www.virtualnerd.com/geometry/triangle-relationships/perpendicular-angle-bisectors/point-on-perpendicular-bisector)[What is the Circumcenter of a Triangle?](http://www.virtualnerd.com/geometry/triangle-relationships/perpendicular-angle-bisectors/triangle-circumcenter-definition) |
| 5.3 Use Angle Bisectors of Triangles | [What is the Incenter of a Triangle?](http://www.virtualnerd.com/geometry/triangle-relationships/perpendicular-angle-bisectors/incenter-definition) |
| 5.4 Use Medians and Altitudes | [What is a Median of a Triangle?](http://www.virtualnerd.com/geometry/triangle-relationships/medians-altitudes/definition-triangle-median)[How Do You Use the Centroid to Find Segment Lengths in a Triangle?](http://www.virtualnerd.com/geometry/triangle-relationships/medians-altitudes/centroid-find-segment-lengths)<https://www.youtube.com/watch?v=rZkTH2UMK8Q> – Altitude of Triangles<https://www.youtube.com/watch?v=q-1IsBnHPcE> – The Orthocenter |
| 5.5 Use Inequalities in a Triangle | [How Do You Determine Whether a Triangle Can Be Formed Given Three Side Lengths?](http://www.virtualnerd.com/geometry/triangle-relationships/inequalities-one-triangle/side-lengths-valid-example)[How Do You Put the Sides of a Triangle in Order According to Size if You Know Two Angles of the Triangle?](http://www.virtualnerd.com/geometry/triangle-relationships/inequalities-one-triangle/triangle-order-sides-example)[What's the Addition Property of Inequality?](http://www.virtualnerd.com/geometry/triangle-relationships/inequalities-one-triangle/addition-property-definition)[What's the Subtraction Property of Inequality?](http://www.virtualnerd.com/geometry/triangle-relationships/inequalities-one-triangle/subtraction-property-definition) |
| 5.6 Inequalities and Two Triangles | [How Do You Use the Hinge Theorem to Compare Side Lengths in Two Triangles?](http://www.virtualnerd.com/geometry/triangle-relationships/inequalities-two-triangles/hinge-theorem-compare-sides)[What is the Hinge Theorem?](http://www.virtualnerd.com/geometry/triangle-relationships/inequalities-two-triangles/hinge-theorem-definition) |