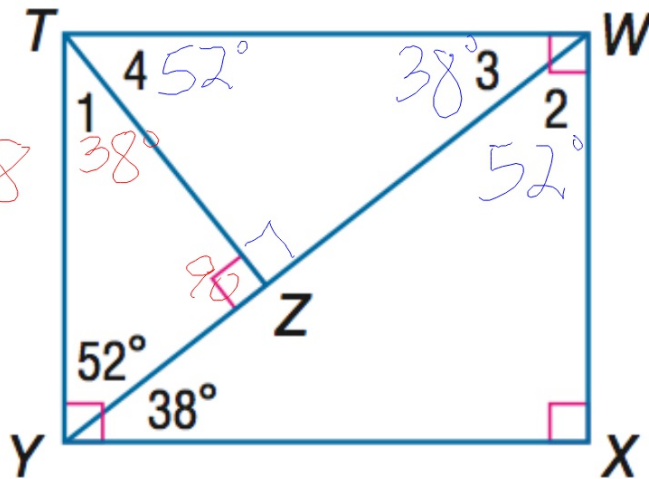


## Geometry BELL WORK

Find the measures of each numbered angle.

$$52 + 90 = 142$$

$$180 - 142 = 38$$



SAS

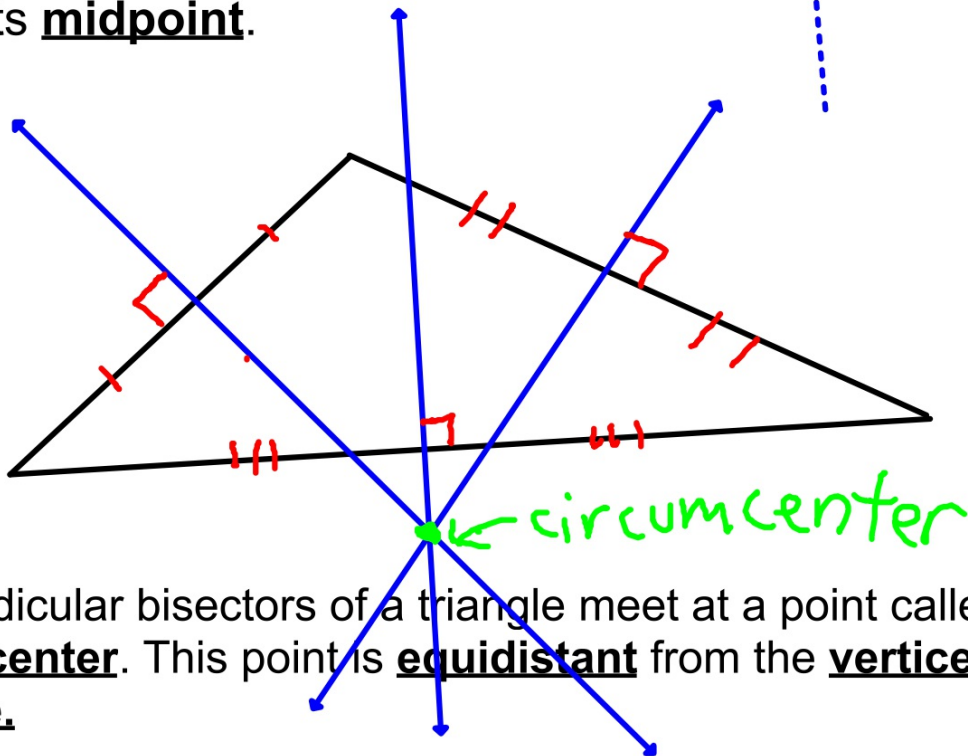
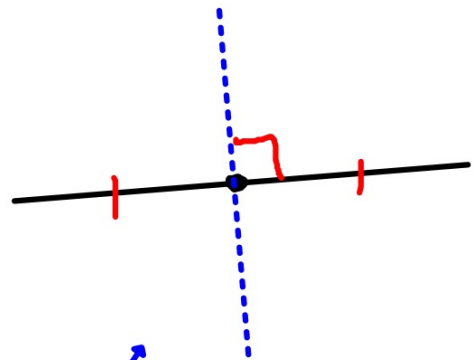
SSS

AAS

ASA

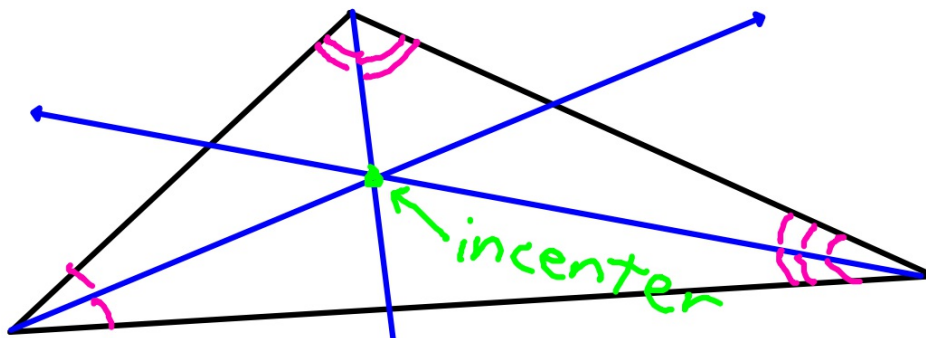
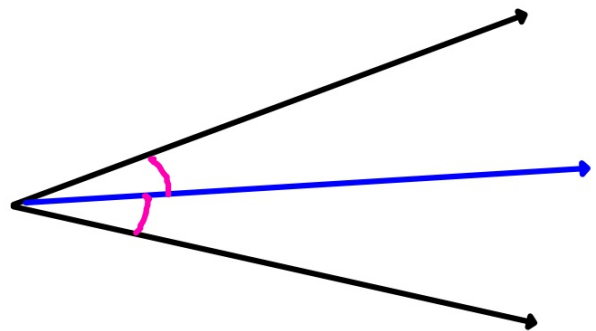
## ***Perpendicular***

***Bisector***: a line **perpendicular** to the segment that passes through its **midpoint**.



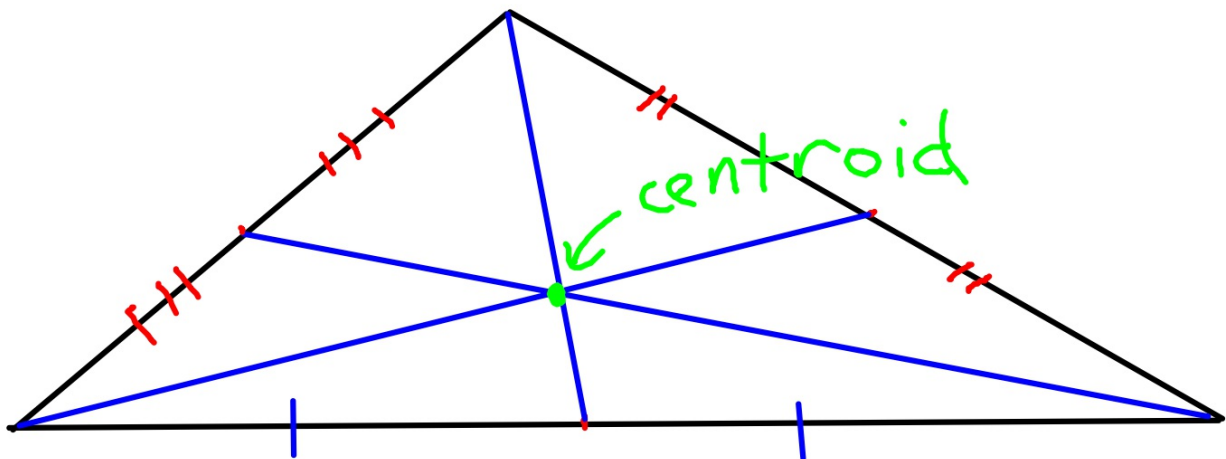
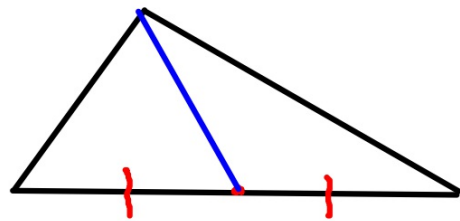
The perpendicular bisectors of a triangle meet at a point called the **circumcenter**. This point is **equidistant** from the **vertices of the triangle**.

**Angle Bisector:** a ray that cuts the **angle** in **half**.



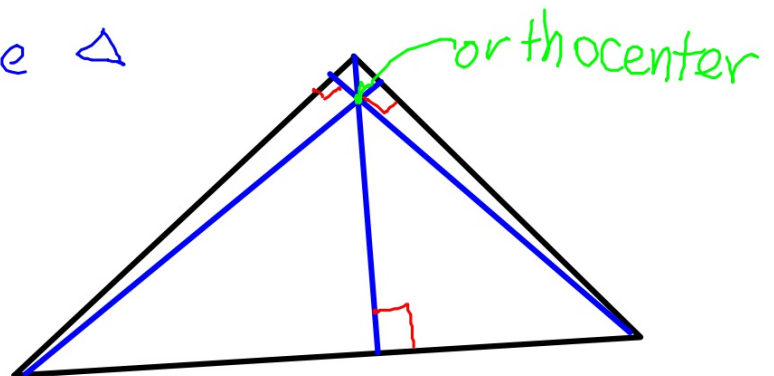
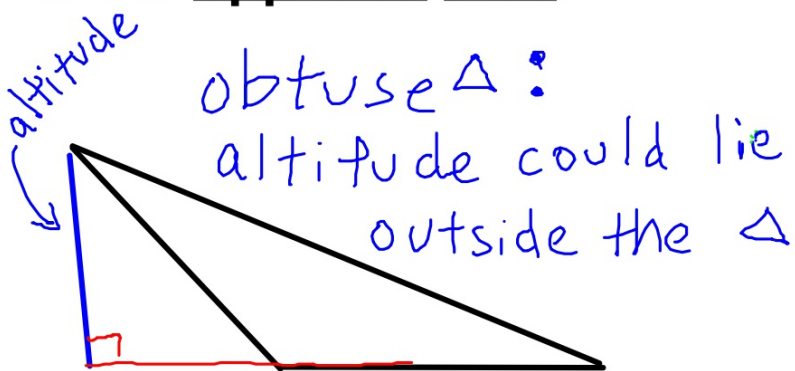
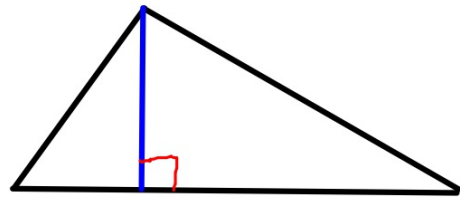
The angle bisectors of a triangle meet at a point called the **incenter**. This point is **equidistant** from the **sides of the triangle**.

**Median:** a segment that goes from **an angle** of a triangle to the **midpoint** of the **opposite side**.



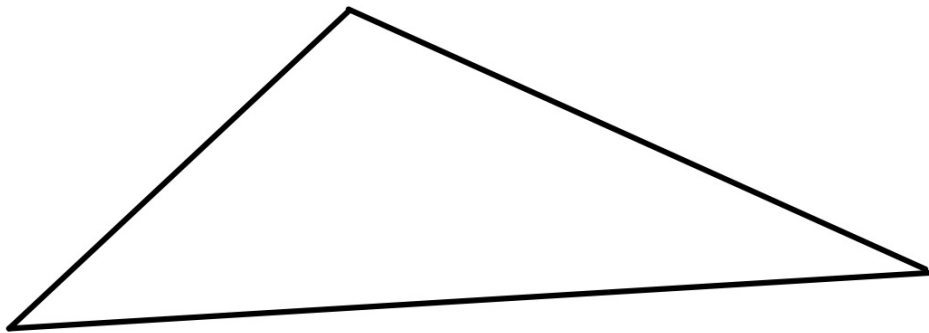
The medians of a triangle meet at a point called the **centroid**. This point is located **two-thirds** of the distance from a **vertex** to the midpoint of the **opposite side**.

**Altitude:** a segment from a **vertex** that is **perpendicular** to the **opposite side**.



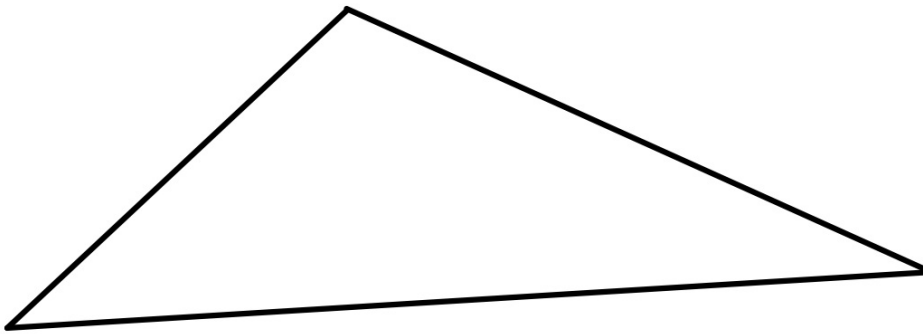
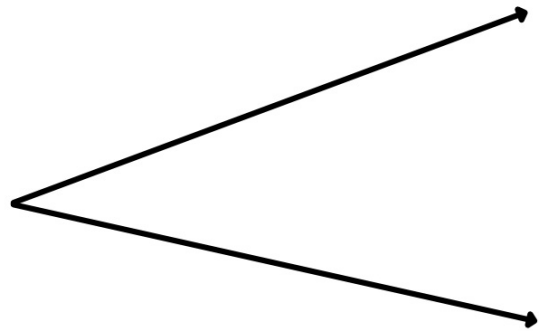
The altitudes of a triangle meet at a point called the **orthocenter**.

Perpendicular Bisector:  
a line \_\_\_\_\_ to  
the segment that passes  
through its \_\_\_\_\_.



The perpendicular bisectors of a triangle meet at a point called the  
\_\_\_\_\_. This point is \_\_\_\_\_ from the \_\_\_\_\_  
\_\_\_\_\_.

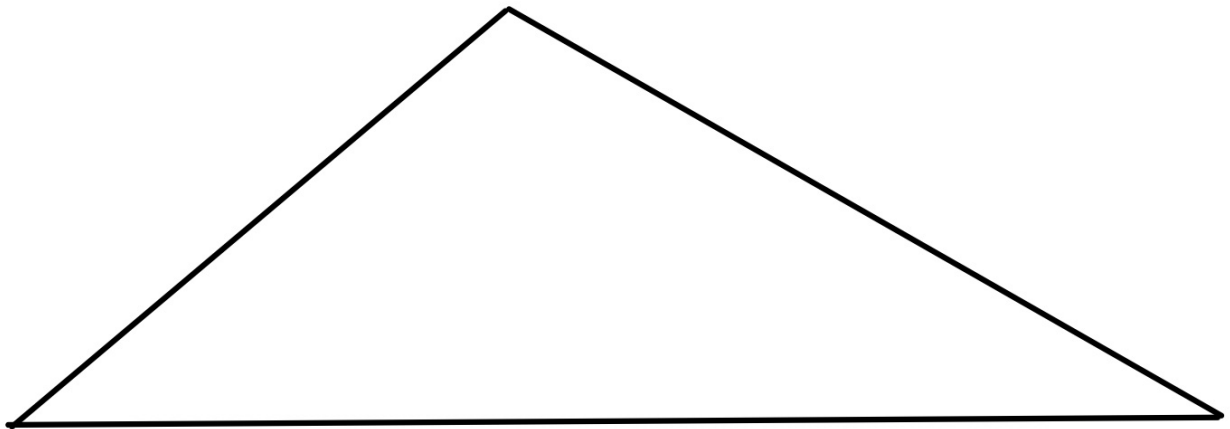
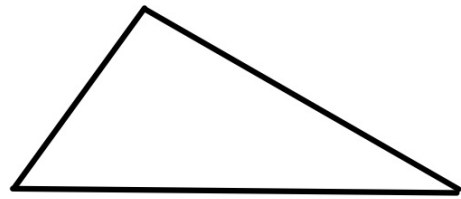
Angle Bisector: a ray that cuts the \_\_\_\_\_ in \_\_\_\_\_.



The angle bisectors of a triangle meet at a point called the \_\_\_\_\_. This point is \_\_\_\_\_ from the \_\_\_\_\_.

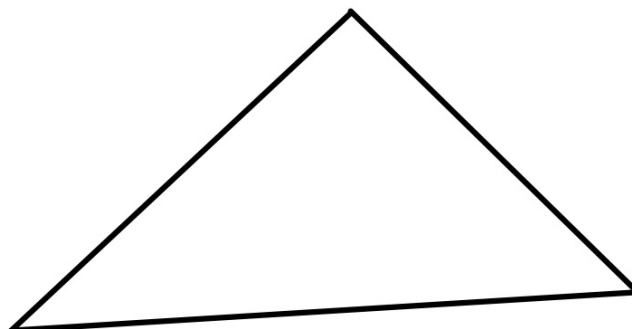
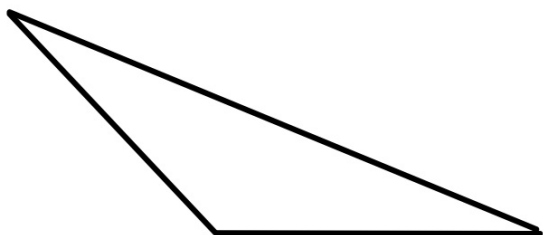
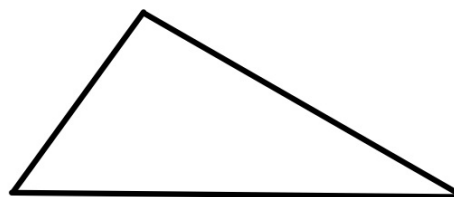


**Median:** a segment that goes from \_\_\_\_\_ of a triangle to the \_\_\_\_\_ of the \_\_\_\_\_.



The medians of a triangle meet at a point called the \_\_\_\_\_. This point is located \_\_\_\_\_ of the distance from a \_\_\_\_\_ to the midpoint of the \_\_\_\_\_.

Altitude: a segment from a  
\_\_\_\_\_ that is  
\_\_\_\_\_ to the  
\_\_\_\_\_.



The altitudes of a triangle meet at a point called the \_\_\_\_\_.