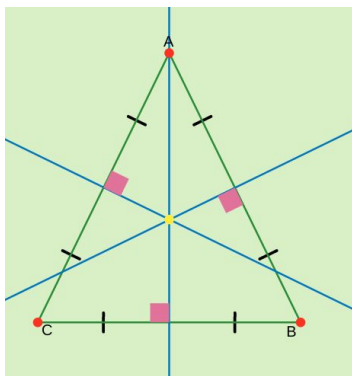**Perpendicular Bisector of a Triangle:**
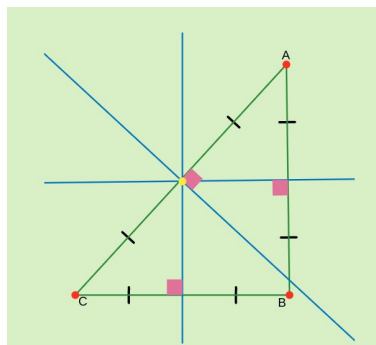
Concurrent Lines:

Point of Concurrency:

The 3 perpendicular bisectors are concurrent The point of concurrency can be:
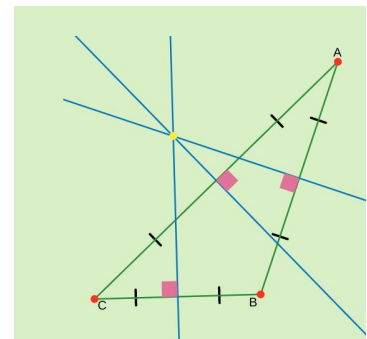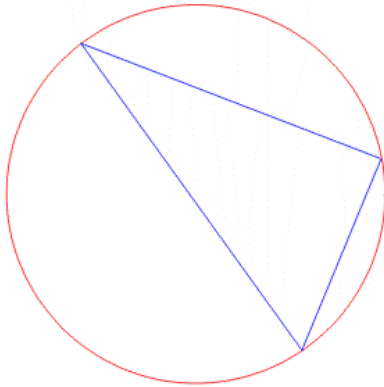
1. Inside the triangle

2. On the triangle

3. Outside the triangle

Circumcenter:

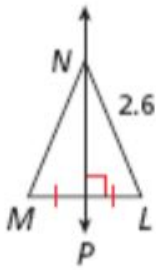**Circumscribe:**

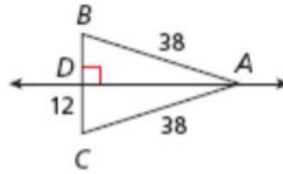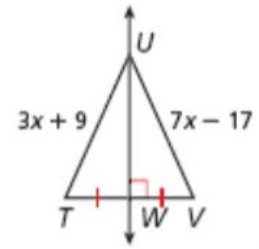|		
Perpendicular Bisector Theorem	If a point is on the perpendicular bisector of a segment, then it is equidistant from the endpoints of the segment.	
Converse of the Perpendicular Bisector Theorem	If a point is equidistant from the endpoints of a segment, then it is on the perpendicular bisector of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

1. Find each measure:
   a. $MN =$

   b. $BC =$

   c. $TU =$
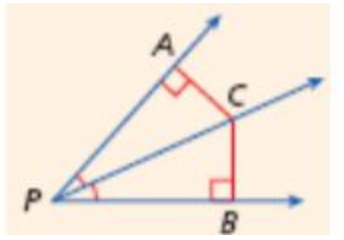
Angle Bisector of a Triangle:

Incenter:

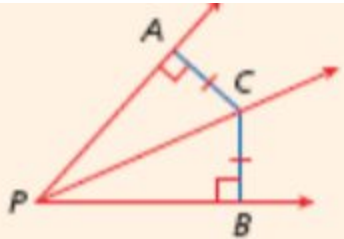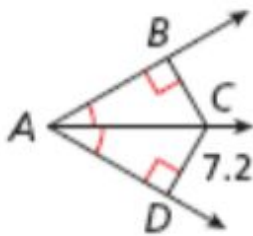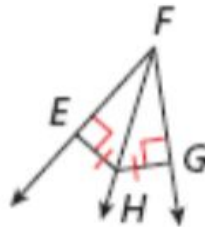**Inscribe:**
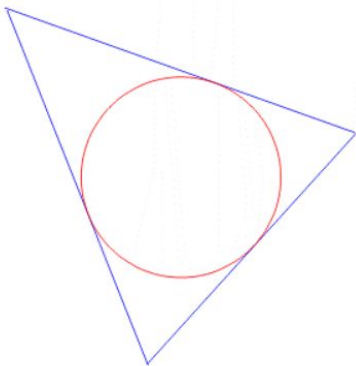
Angle Bisector Theorem	If a point is on the bisector of an angle, then it is equidistant from the sides of then angle	
Converse of the Angle Bisector Theorem	If a point in the interior of an angle is equidistant from the sides of the angle, then it is on the bisector of the angle.	

2. Find each measure:

a. $BC =$

b. If $m\angle EFG = 50°$
then $m\angle EFH =$

c. $m\angle MKL =$