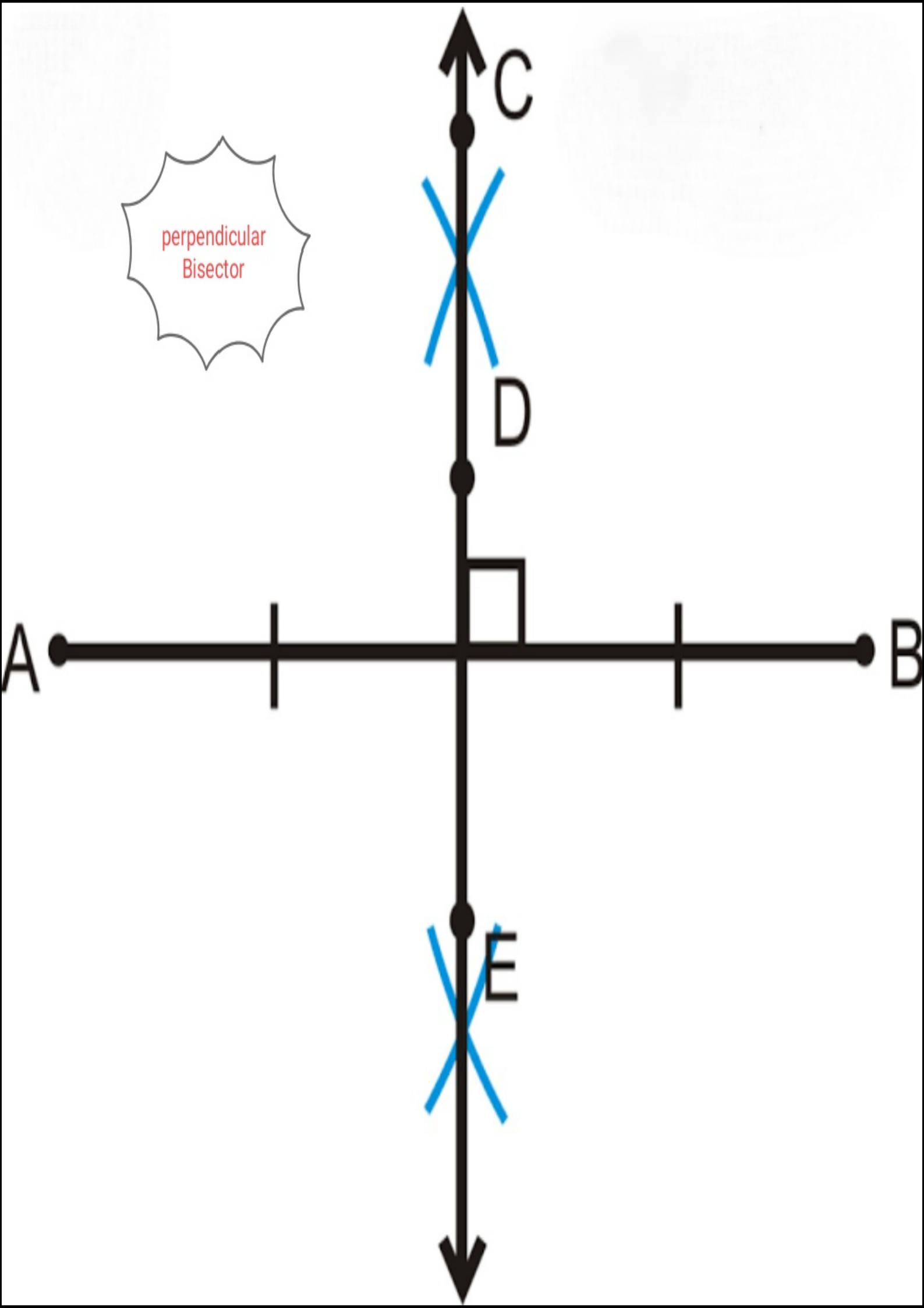
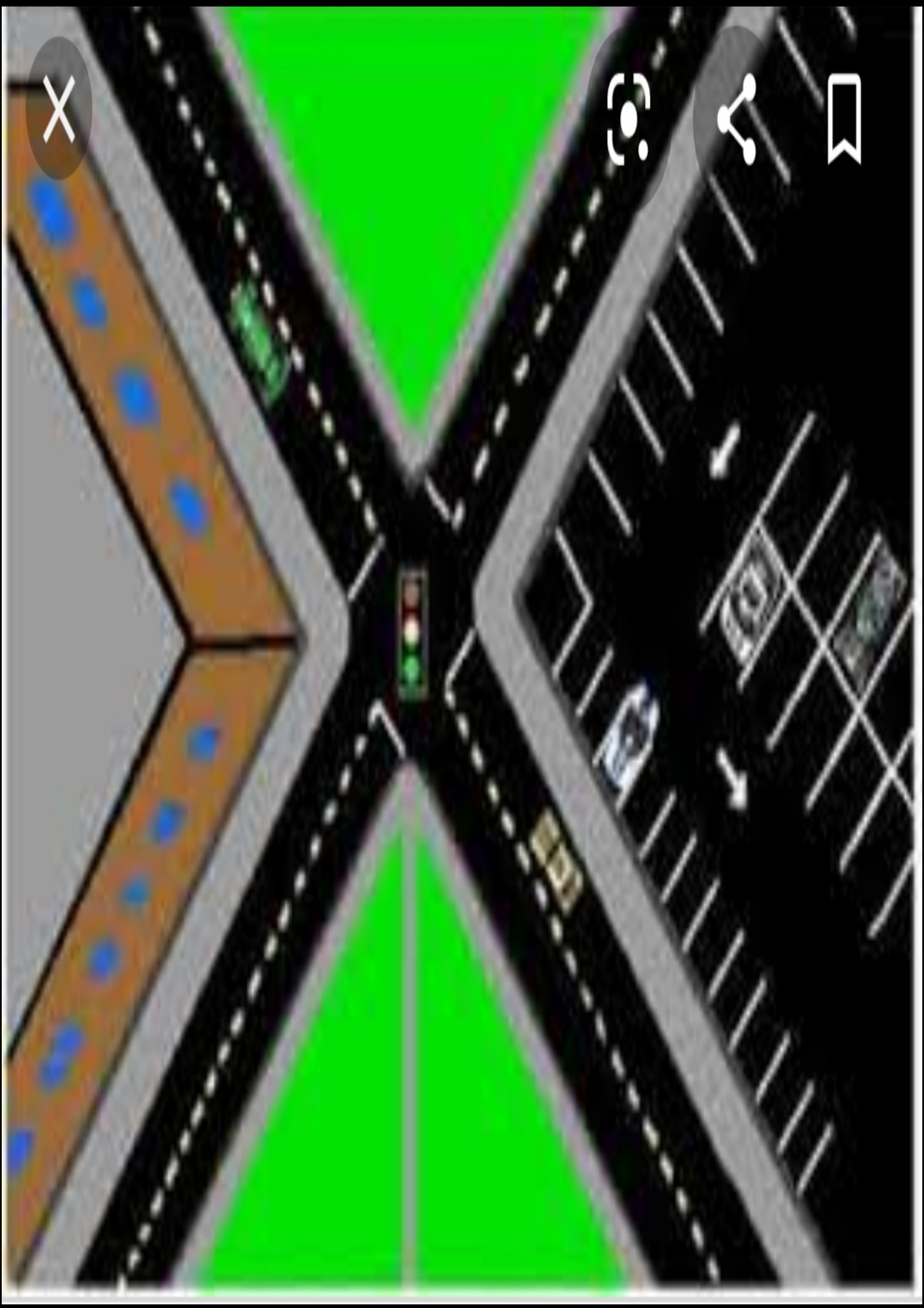


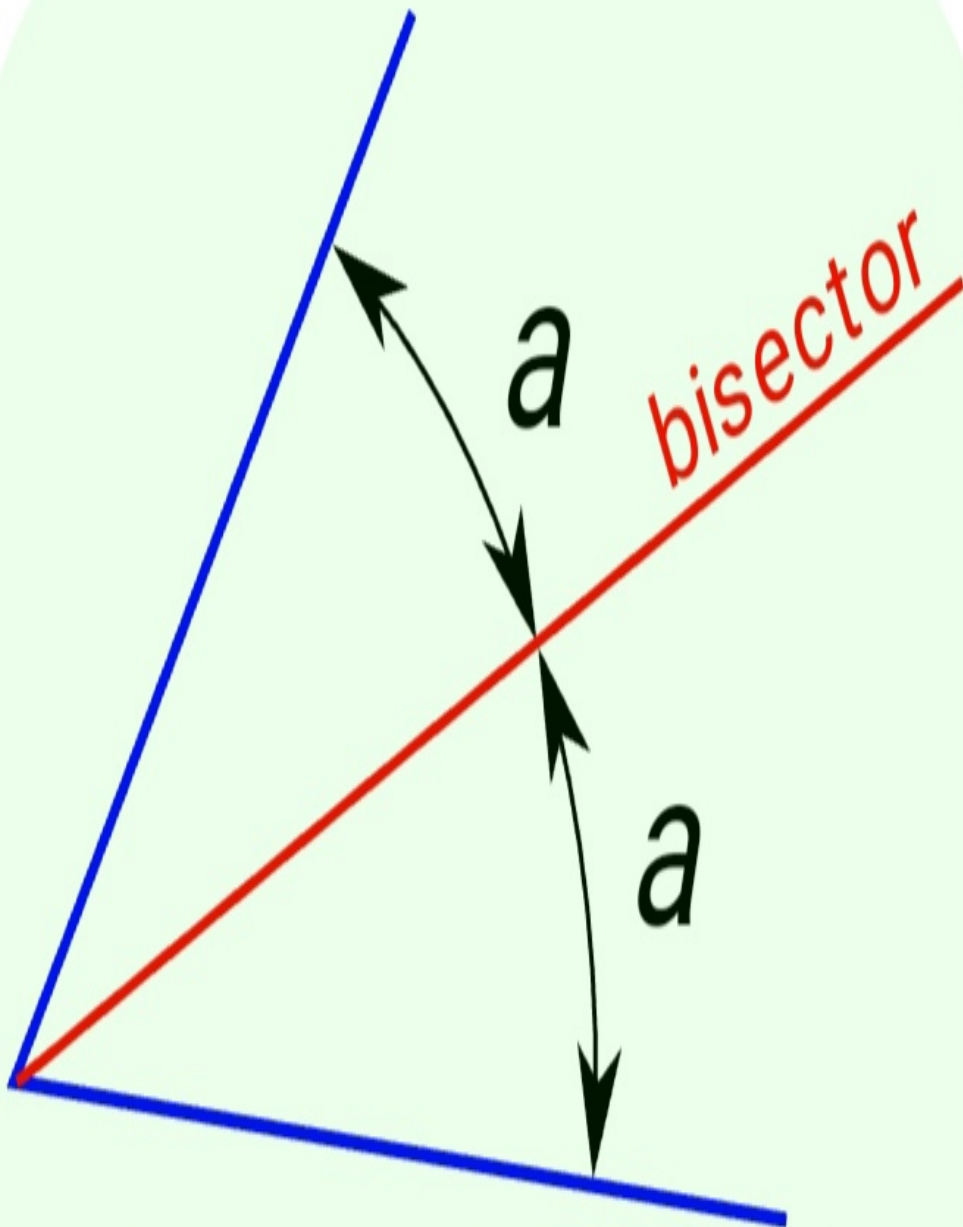
The **perpendicular bisector** is a line that divides a line segment into two equal parts. It also makes a right angle with the line segment. Each point on the **perpendicular bisector** is the same distance from each of the endpoints of the original line segment.







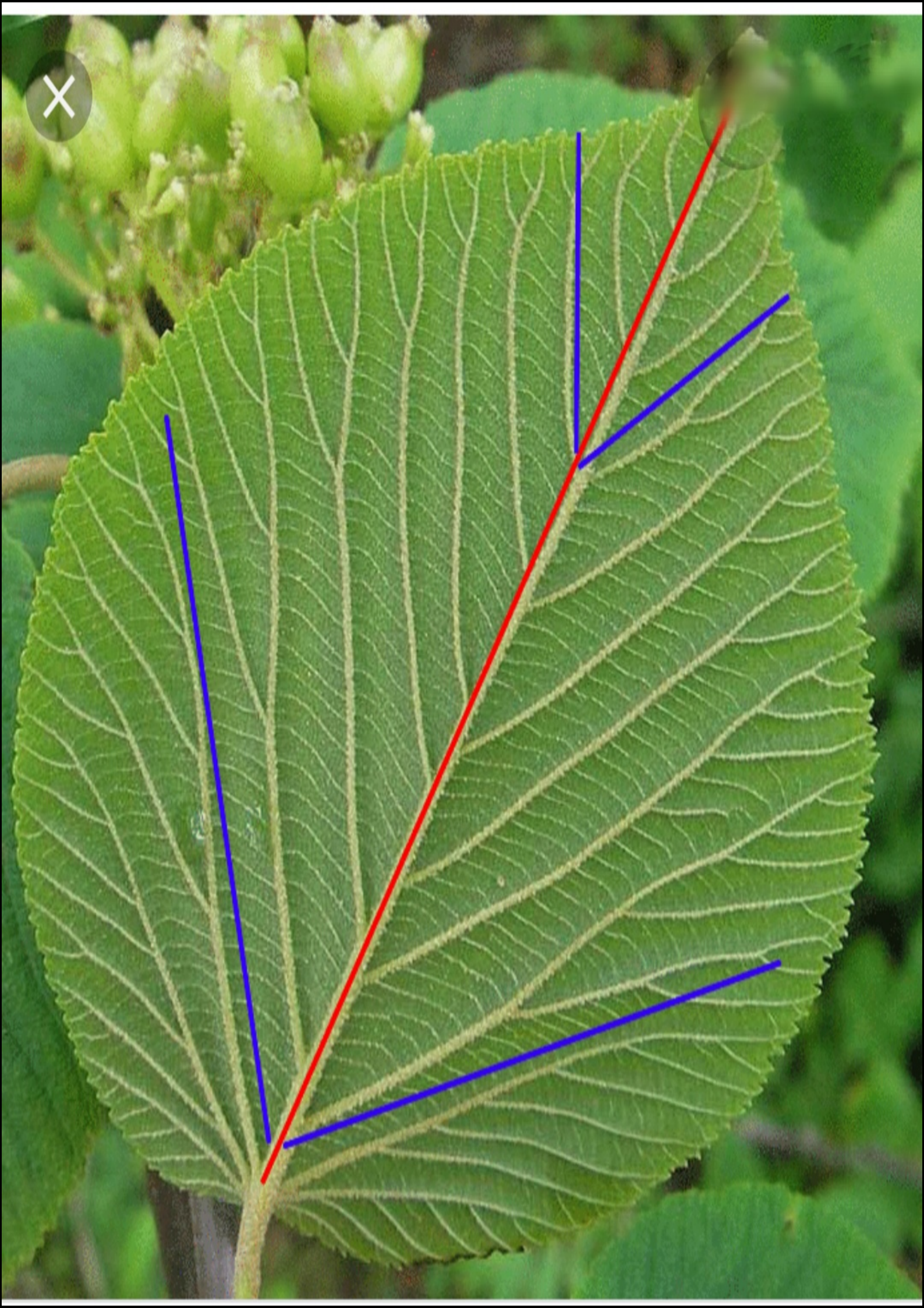
# Angle Bisector

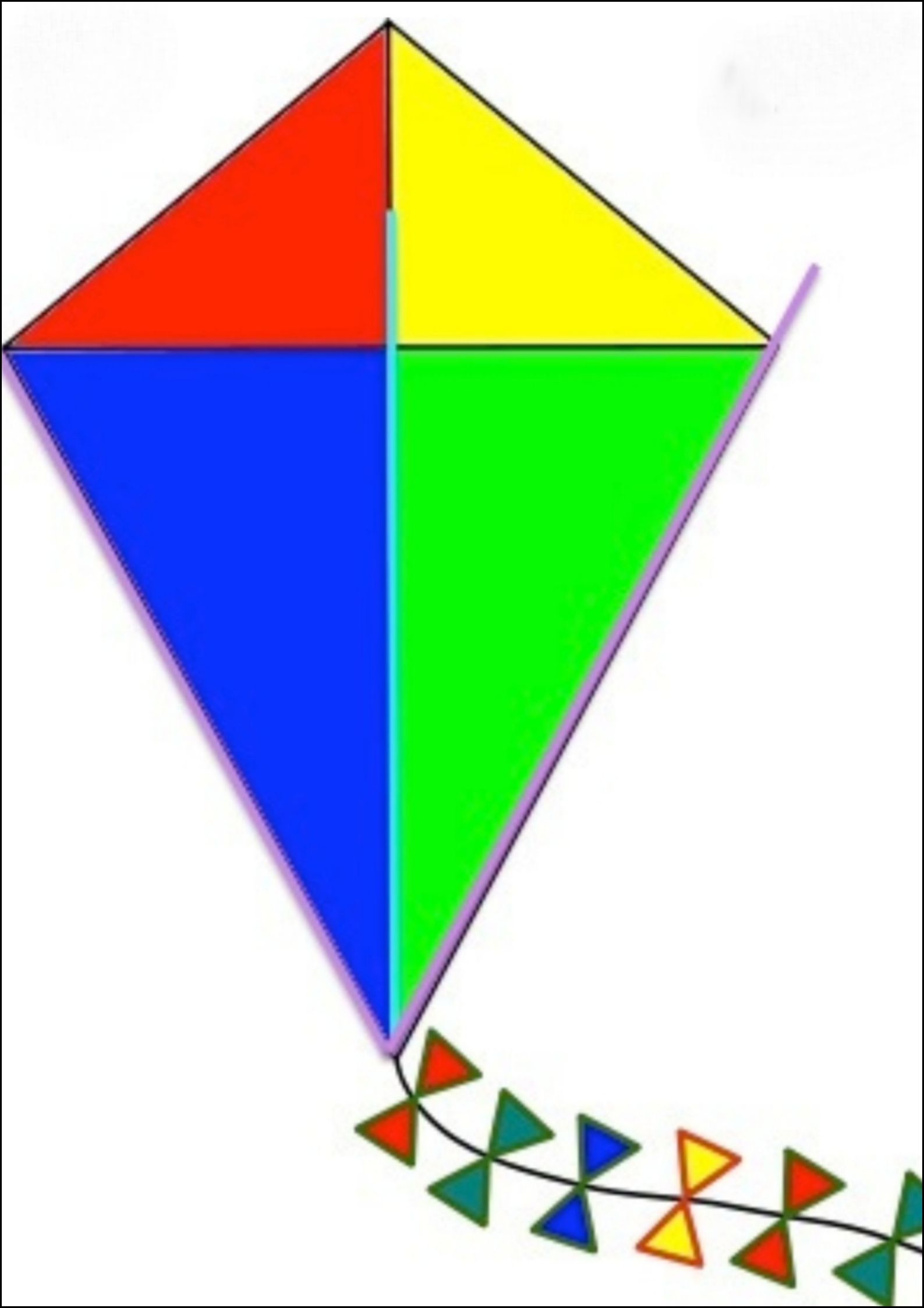


Blue Angle is Bisected

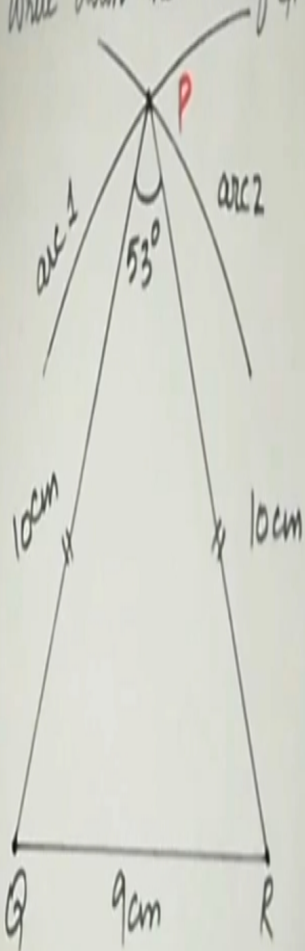
A line that splits an angle into two equal angles.

("Bisect" means to divide into two equal





that  $PQ = PR = 10\text{ cm}$  and  $QR = 9\text{ cm}$ . Measure and write down the size of  $\hat{QPR}$ .



### Construction:

- 1) Draw a line segment  $QR$   $9\text{ cm}$ .
- 2) Using  $R$  as the centre draw an arc 1 of  $10\text{ cm}$  and using  $Q$  as the centre point draw an arc 2 of  $10\text{ cm}$ .
- 3) Give a Name  $P$  to the intersection of arc 1 & arc 2
- 4) Join  $Q$  to  $P$  and  $R$  to  $P$
- 5) By Placing the Protractor on  $PR$  measure the  $\hat{QPR}$