


## CENTRE of a TRIANGLE : Worksheet 1

(You will need a **Compass and Straight Edge** for this worksheet)

Name : ..... No : .....  
Class : .....  
Date : .....



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There are four well known centres of a triangle which can be found

with a **Compass and Straight Edge** :

1. The **Incentre** : the intersection of the angle bisectors
2. The **Circumcentre** : the intersection of the perpendicular bisectors
3. The **Orthocentre** : the intersection of the altitudes
4. The **Centroid** : the intersection of the medians

As well, there is the **Medial Triangle**, which uses the midpoints of each side

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The **Incentre** : intersection of the angle bisectors **Y**

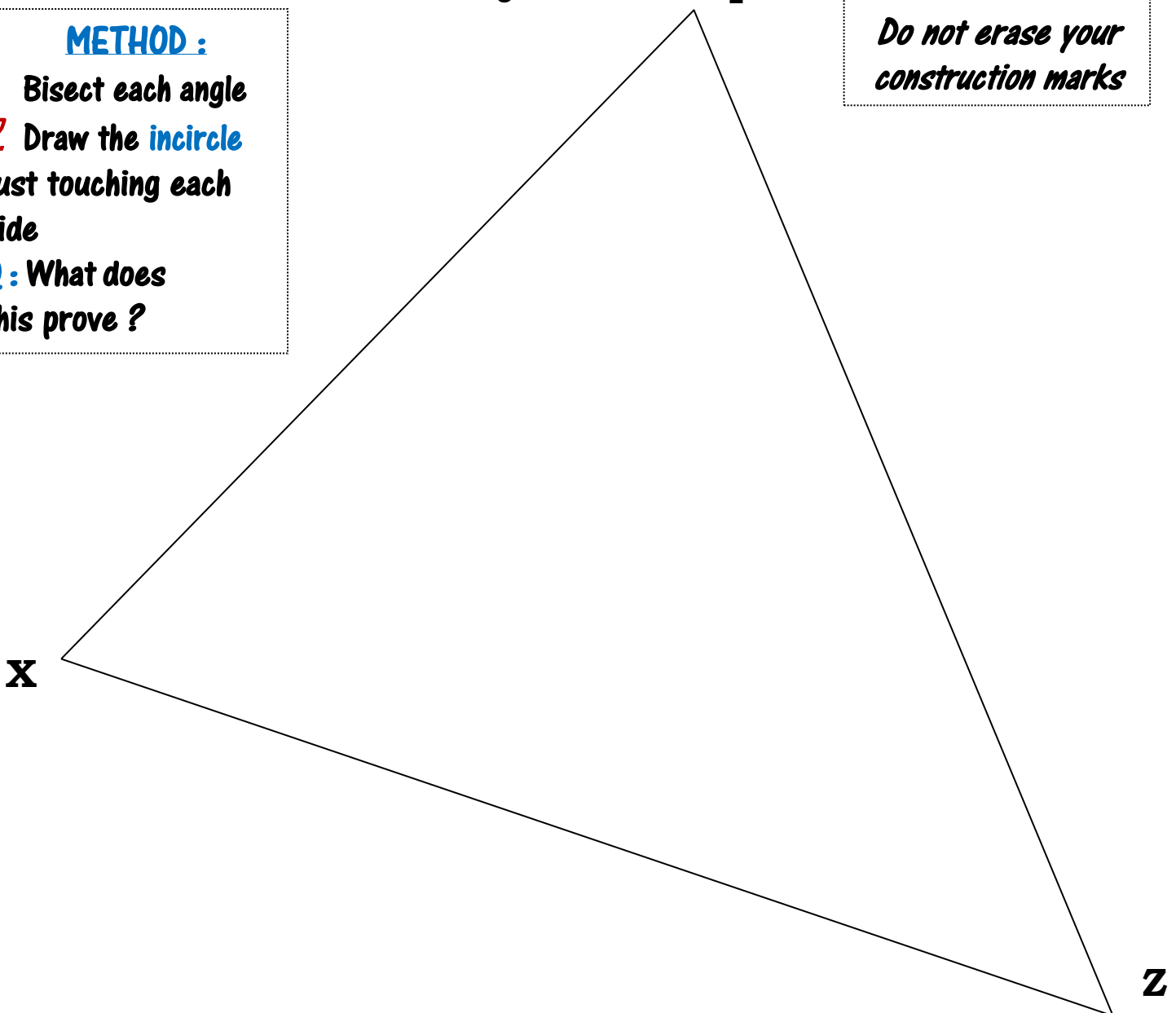
**METHOD :**

1. Bisect each angle
2. Draw the **incircle** just touching each side

**Q :** What does this prove ?

**NOTE**

*Do not erase your construction marks*



The Circumcentre : intersection of the perpendicular bisectors

**METHOD :**

1. Construct perpendicular bisectors on each side\*

2. Form the **circumcircle** (centre at circumcentre) just touching each vertex

**Q** : What does this prove ?

**NOTE**

*Do not erase your construction marks*

**NOTE**

*\*In the triangle below, you can use the same radius for all 3 bisectors*

