

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date: .....

Name: .....

ID No.....

## Oral Test

1. Does the value of  $\tan \theta$  increase or decrease as we increase the value of  $\theta$ ? Give reason.

Sol. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. What will be the change in the value of  $\cos \theta$  if we decrease the value of  $\theta$ ?

Sol. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. What is the relation between  $\sin \theta, \cos \theta$  and  $\cot \theta$ ?

Sol. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. What is the relation between  $\tan \theta$  and  $\sec \theta$ ?

Sol. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. The value of  $\tan A$  is always less than 1. State True or False.

Sol. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Can the value of  $\cos \theta = \frac{5}{4}$  for some angle  $\theta$ ?

Sol. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_