

# Activity Worksheet

Challenging brain

Sub : Mathematics

Grade: X

Date: .....

Name: .....

ID No.....

## Multiple Choice Questions

1. If  $\cos A = \frac{1}{\sqrt{2}}$ , the value of  $\cot A$  is

(a)  $\sqrt{2}$

(b) 1

(c)  $\frac{1}{\sqrt{2}}$

(d)  $\frac{1}{\sqrt{3}}$

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

\_\_\_\_\_

\_\_\_\_\_

2. The value of  $(\sin 45^\circ + \cos 45^\circ) - (\sin 90^\circ + \cos 90^\circ)$  is

(a)  $\frac{1}{\sqrt{2}} + 1$

(b)  $\sqrt{2} + 1$

(c)  $\sqrt{2}$

(d)  $1 + \sqrt{2}$

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

\_\_\_\_\_

\_\_\_\_\_

3. The value of  $\sin^2 60^\circ + \cos^2 60^\circ$  is

(a) 1

(b) 0

(c)  $\frac{\sqrt{3}}{4}$

(d)  $\frac{1}{4}$

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

\_\_\_\_\_

\_\_\_\_\_

4. The value of  $\frac{\tan 60^\circ}{\tan 30^\circ}$  is

(a)  $\frac{1}{\sqrt{3}}$

(d)  $\sqrt{3}$

(c) 3

(b)  $\sqrt{3}$

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_