**ASSIGNMENT NO.-1(TRIGONOMETRIC FUNCTIONS)**

**(MATHEMATICS)**

1. Find the degree measure corresponding to the following radian measures:

2. Find the radian measure corresponding to the following degree measures:

3. Find in degrees the angle subtended at the centre of a circle of diameter 50 cm by an arc of

 length 11 cm.

4. Find in degrees the angle through which a pendulum swings if its length is 50 cm and the tip

 describes an arc of length 10 cm.

5. The minute hand of a watch is 1.5 cm long.How far does its tip move in 40 minutes?

6. Prove that :

7. Find all other trigonometric ratios,if and lies in quadrant

8. Evaluate the following:

9. Prove that :

10. Prove that :

11. Prove that :

12. Prove that : .

13. Prove that : .

14. If find and ,when , lies in quadrant

15. Find the general solution of the following :