**Aarambh Classes**

**Class X**

**MATHS TEST**

**Trignometric ratios and identities**

**Time : 1hour M.Marks : 30**

1. If 5 cot =3 ,find the value of .

2. If 4 ,then evaluate .

3. In ABC ,if ,BC =7 cm and (AC-AB ) = 1cm then find the value of (cos A –sin A ).

4. In ABC ,if ,AB =5 cm and AC+BC =25 cm ,then find the value of (sec A –tan A ).

5. If ,show that .

6. If sin (A+2B) = and cos (A+4B) =0 ,A B and 0,then find the values of a and b .

7. If sin A = and cos B =,then find the value of .

8. If sinx +cosy =1 ,x =30and y is an acute angle then find the value of y .

9. If sec = ,find .

10. If ,show that (and hence find the values of cos and sin.

11. Prove that : (1+cotA –cosec A )( (1+tan A +sec A )=2

12. Prove that : (sin +cosec)+ =

13. Prove that : (cosec -cot) = .

14. Prove that : =

15. Prove that : =