KENDRIYA VIDYALAYA GILL NAGAR CHENNAI -94

CLASS X MATHEMATICS

INTRODUCTION TO TRIGONOMETRY

WORK SHEET -1

1. If tan A = $\frac{4}{3}$, find all other trigonometric ratios of the angle A.

2. If cosecθ = $\sqrt{5}$,find the value of cotθ – cosθ

3. If 5tanα = 4 , then find the value of $\frac{5sin\alpha-3cos\alpha}{sin\alpha+2cos\alpha}$

4. If 5 sinβ =3, find the value of $\frac{sec\beta-tan\beta}{sec\beta+tan\beta}$

5. If tan (A+B) =$\sqrt{3}$ and tan (A-B) =$\frac{1}{\sqrt{3}}$, find the values of A and B, where A and B are acute angles of Rt.triangle ABC.

6. Find the value of sin30^0tan45^0cos90^0 + sin45^0.

7. Evalute $\frac{sin60^0}{cos^2 45^0}$ -3tan30^0 +5cos90^0.

8. If x= 30^0,verify that tan(2x) = $\frac{2tanx}{1-tan^2x}$

9. If x=15^0,find the value of 4sin2xtan3xcos4xsin6x.

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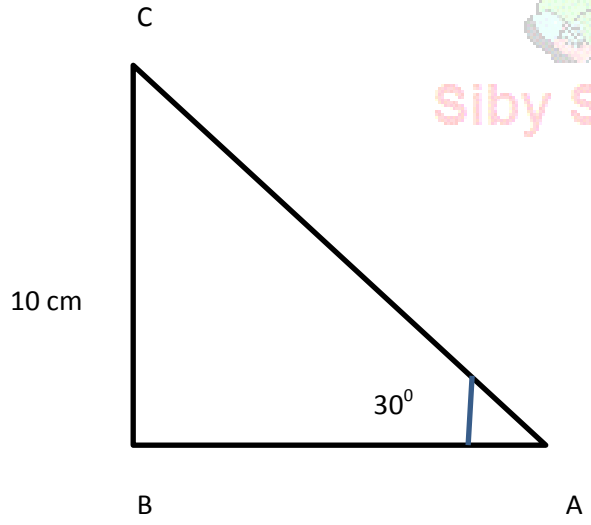

In Rt. ΔABC, Angle A = 30^0. BC= 10cm.

Find AB and AC, using trigonometric ratios.

Siby Sebastian