Introduction to Trigonometry : Worksheet -2

1. In ΔABC, right-angled at B, AB = 24 cm, BC = 7 cm.

Determine:

(i) sin A, cos A (ii) sin C, cos C

2. If $\sin A = \frac{3}{4}$ calculate cos A and tan A.

3. Given 15 cot A = 8, find sin A and sec A.

4. Given sec θ=13/12 calculate all other trigonometric ratios.

5. If $\angle A$ and $\angle B$ are acute angles such that cos A = cos B, then show that $\angle A = \angle B$.

6. If cot $\theta = 7/8$, evaluate :

(i) $\frac{(1+\sin\theta)(1-\sin\theta)}{(1+\cos\theta)(1-\cos\theta)}$

(ii) $\cot^2\theta$