

# Mathematics

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(Chapter - 8) (Introduction to Trigonometry) (Exercise 8.1)  
(Class X)

## Question 4:

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

### Answer 4:

Given that:  $15 \cot A = 8$

$$\Rightarrow \cot A = \frac{8}{15}$$

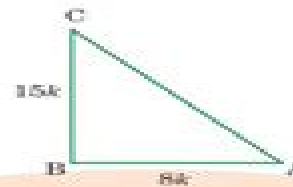
Let  $\cot A = \frac{8k}{15k}$ , where  $k$  is a real number.

In  $\triangle ABC$ , by Pythagoras theorem, we have

$$\begin{aligned} AC^2 &= AB^2 + BC^2 \\ &= (8k)^2 + (15k)^2 \\ &= 64k^2 + 225k^2 \\ &= 289k^2 \end{aligned}$$

$$\Rightarrow AC = \sqrt{289k^2} = 17k$$

$$\text{Hence, } \sin A = \frac{BC}{AC} = \frac{15k}{17k} = \frac{15}{17} \text{ and } \sec A = \frac{AC}{AB} = \frac{17k}{8k} = \frac{17}{8}$$



## Question 5:

Given  $\sec \theta = \frac{13}{12}$ , calculate all other trigonometric ratios.

### Answer 5:

Given that:  $\sec \theta = \frac{13}{12}$

Let  $\sec \theta = \frac{13k}{12k}$ , where  $k$  is a real number.

In  $\triangle ABC$ , by Pythagoras theorem, we have

$$\begin{aligned} BC^2 &= AC^2 - AB^2 \\ &= (13k)^2 - (12k)^2 \\ &= 169k^2 - 144k^2 \\ &= 25k^2 \end{aligned}$$

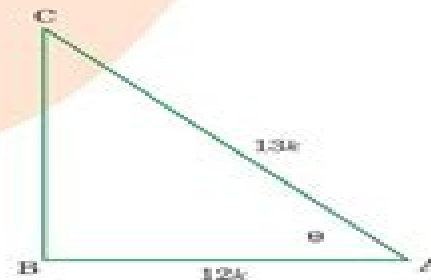
$$\Rightarrow BC = \sqrt{25k^2} = 5k$$

$$\text{Hence, } \sin \theta = \frac{BC}{AC} = \frac{5k}{13k} = \frac{5}{13}$$

$$\cos \theta = \frac{AB}{AC} = \frac{12k}{13k} = \frac{12}{13}$$

$$\tan \theta = \frac{BC}{AB} = \frac{5k}{12k} = \frac{5}{12}$$

$$\operatorname{cosec} \theta = \frac{AC}{BC} = \frac{13k}{5k} = \frac{13}{5} \text{ and } \cot \theta = \frac{AB}{BC} = \frac{12k}{5k} = \frac{12}{5}$$



## Question 6:

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

### Answer 6:

Given that:  $\cos A = \cos B$

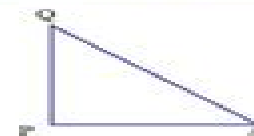
$$\cos A = \cos B$$

$$\Rightarrow \frac{AP}{AQ} = \frac{BC}{BD}$$

$$\Rightarrow \frac{AP}{BC} = \frac{AQ}{BD}$$

$$\text{Let } \frac{AP}{BC} = \frac{AQ}{BD} = k$$

Therefore,  $AP = k(BC)$  and  $AQ = k(BD)$



... (i)

# Ncert Solution For Class 10 Maths Chapter 8

**Yi-Tong Ma**



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