

Mathematics

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(Chapter - 8) (Introduction to Trigonometry)

(Class 10)

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

$$AC^2 = AB^2 + BC^2$$

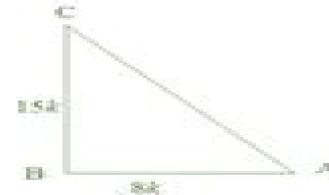
$$= (8k)^2 + (15k)^2$$

$$= 64k^2 + 225k^2$$

$$= 289k^2$$

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

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



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

$$BC^2 = AC^2 - AB^2$$

$$= (13k)^2 - (12k)^2$$

$$= 169k^2 - 144k^2$$

$$= 25k^2$$

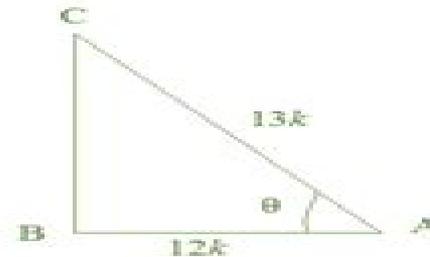
$$\Rightarrow BC = \sqrt{25k^2} = 5k$$

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

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

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

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



Question 6:

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

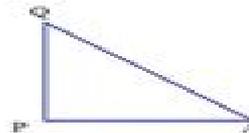
Answer 6:

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

$$\cos A = \cos B$$

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

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



Geometry Chapter 12 Test Answer Key

Roman Wölfel



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