

Exercise 8.1

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

- (i) $\sin A$, $\cos A$
- (ii) $\sin C$, $\cos C$

Solution:

In a given triangle ABC, right angled at $B = \angle B = 90^\circ$

Given: $AB = 24$ cm and $BC = 7$ cm

According to the Pythagoras Theorem,

In a right- angled triangle, the squares of the hypotenuse side is equal to the sum of the squares of the other two sides.

By applying Pythagoras theorem, we get

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

$$AC^2 = (24)^2 + 7^2$$

$$AC^2 = (576 + 49)$$

$$AC^2 = 625 \text{ cm}^2$$

Therefore, $AC = 25$ cm

(i) To find $\sin (A)$, $\cos (A)$

We know that sine (or) Sin function is the equal to the ratio of length of the opposite side to the hypotenuse side. So it becomes

$$\sin (A) = \frac{\text{Opposite Side}}{\text{Hypotenuse Side}} = i, \quad \frac{BC}{AC} = \frac{7}{25}$$

Cosine or Cos function is equal to the ratio of the length of the adjacent side to the hypotenuse side and it becomes,

$$\cos (A) = \frac{\text{Adjacent Side}}{\text{Hypotenuse Side}} = i, \quad \frac{AB}{AC} = \frac{24}{25}$$

(ii) To find $\sin (C)$, $\cos (C)$

$$\sin (C) = \frac{AB}{AC} = \frac{24}{25}$$

$$\cos (C) = \frac{BC}{AC} = \frac{7}{25}$$

2. In Fig. 8.13, find $\tan P - \cot R$

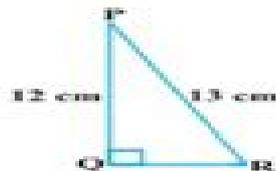


Fig. 8.13

Solution:

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CO Houle



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