

## CHAPTER-15- Trigonometric or Circular Functions

## Exercise 15 A

Solution - 1:

Given that:  $\cos \theta = \frac{-\sqrt{3}}{2}$

Now,

$$\cos^2 \theta + \sin^2 \theta = 1$$

$$\left(\frac{-\sqrt{3}}{2}\right)^2 + \sin^2 \theta = 1 \quad [\text{given}]$$

$$\Rightarrow \sin \theta = \pm \frac{1}{2}$$

$$\therefore \sin \theta = -\frac{1}{2} \quad (\text{Since, } \theta \text{ in III}^{\text{rd}} \text{ quadrant})$$

Now

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

Putting the values, we get

$$= \tan \theta = \frac{-\frac{1}{2}}{\frac{-\sqrt{3}}{2}} = -\frac{1}{2} \times \frac{2}{\sqrt{3}} = \frac{1}{\sqrt{3}}$$

Hence, the values of other trigonometric Functions are:

<b>Cos <math>\theta</math></b>	<b>Sin <math>\theta</math></b>	<b>Tan <math>\theta</math></b>	<b>Cosec <math>\theta</math></b>	<b>Sec <math>\theta</math></b>	<b>Cot <math>\theta</math></b>
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