

Class - X RS Aggarwal Solutions Chapter 10: Trigonometric Ratios

Given:
$$\tan \theta = \frac{AB}{BC} = \frac{1}{2}$$

By Pythagoras theorem:

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

$$\Rightarrow AC^2 = (1)^2 + (2)^2$$

$$\Rightarrow$$
 AC² = 1 + 4

$$\Rightarrow$$
 AC² = 5

$$\Rightarrow$$
 AC = $\sqrt{5}$

Now,

$$\sin \theta = \frac{AB}{AC} = \frac{1}{\sqrt{5}}$$

$$\cos \theta = \frac{BC}{AC} = \frac{2}{\sqrt{5}}$$

Therefore

$$\frac{\cos\theta}{\sin\theta} + \frac{\sin\theta}{1 + \cos\theta}$$

$$=\frac{\frac{2}{\sqrt{5}}}{\frac{1}{\sqrt{5}}}+\frac{\frac{1}{\sqrt{5}}}{1+\frac{2}{\sqrt{5}}}$$

$$= 2 + \frac{\frac{1}{\sqrt{5}}}{\frac{\sqrt{5} + 2}{\sqrt{5}}}$$

$$=2+\frac{1}{\sqrt{5}+2}$$

$$=2+\frac{1}{\sqrt{5}+2}\times\frac{\sqrt{5}-2}{\sqrt{5}-2}$$

$$=2+\frac{\sqrt{5}-2}{\left(\sqrt{5}\right)^2-2^2}$$

$$=2+\frac{\sqrt{5}-2}{5-4}$$

$$[\because a^2 - b^2 = (a+b)(a-b)]$$

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I.S. Chawla

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