

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



wtf this great ebook for free?!

#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

(i)

$$\text{LHS} = \frac{1 + \cos \theta + \sin \theta}{1 + \cos \theta - \sin \theta}$$

On dividing the numerator and denominator of LHS by $\cos \theta$, We get

$$\text{LHS} = \frac{\sec \theta + 1 + \tan \theta}{\sec \theta - 1 - \tan \theta}$$

$$= \frac{(\sec \theta + \tan \theta) + (\sec^2 \theta - \tan^2 \theta)}{1 + \sec \theta - \tan \theta}$$

writing $1 = (\sec^2 \theta - \tan^2 \theta)$

$$= \frac{(\sec \theta + \tan \theta) + (\sec \theta + \tan \theta)(\sec \theta - \tan \theta)}{1 + \sec \theta - \tan \theta}$$

$$= \frac{(\sec \theta + \tan \theta)(1 + \sec \theta - \tan \theta)}{(1 + \sec \theta - \tan \theta)}$$

$$= (\sec \theta + \tan \theta) = \left(\frac{1}{\cos \theta} + \frac{\sin \theta}{\cos \theta} \right)$$

$$= \frac{1 + \sin \theta}{\cos \theta} = \text{RHS}$$

$\therefore \text{LHS} = \text{RHS}$

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Rs Aggarwal Maths Class 11 Trigonometry Solutions

(ii)

$$\text{LHS} = \frac{\sin \theta + 1 - \cos \theta}{\cos \theta - 1 + \sin \theta}$$

On dividing the numerator and denominator of LHS by $\cos \theta$, We get

$$\text{LHS} = \frac{\tan \theta + \sec \theta - 1}{1 - \sec \theta + \tan \theta}$$

$$= \frac{(\tan \theta + \sec \theta) - (\sec^2 \theta - \tan^2 \theta)}{(1 - \sec \theta + \tan \theta)}$$

{writing $1 = \sec^2 \theta - \tan^2 \theta$ }

$$= \frac{(\tan \theta + \sec \theta) - (\sec \theta + \tan \theta)(\sec \theta - \tan \theta)}{(1 - \sec \theta + \tan \theta)}$$

$$= \frac{(\tan \theta + \sec \theta)(1 - \sec \theta + \tan \theta)}{(1 - \sec \theta + \tan \theta)}$$

$$= \tan \theta + \sec \theta = \frac{\sin \theta}{\cos \theta} + \frac{1}{\cos \theta} = \frac{\sin \theta + 1}{\cos \theta} = \text{RHS}$$

$\therefore \text{LHS} = \text{RHS}$