

$$\frac{\cot x}{\cos x} = 2.$$

$$\frac{\frac{\cos x}{\sin x}}{\cos x} = 2$$

$$\frac{\cancel{\cos x}}{\sin x} \cdot \frac{1}{\cancel{\cos x}} = 2$$

$$\frac{1}{\sin x} = 2$$

$$\csc x = 2$$

$$\frac{1}{\sin x} = 2$$

$$1 = 2 \sin x$$

$$\frac{1}{2} = \sin x$$

$$\frac{1+\cos x}{1+\cos x} \cdot 32. \frac{1+\cos x}{\sin x} + \frac{\sin x}{1+\cos x} \stackrel{\sin x}{=} 4$$

$$\frac{1+2\cos x + \cos^2 x + \sin^2 x}{\sin x(1+\cos x)} = 4$$

$$\frac{2+2\cos x}{\sin x(1+\cos x)} = 4$$

$$\frac{2(1+\cos x)}{\sin x(1+\cos x)} = 4$$

$$\frac{2}{\sin x} = 4$$

$$2 \csc x = 4$$

$$\csc x = 2$$

$$2 = 4 \sin x$$

$$\frac{1}{2} = \sin x$$

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