4 Simplify $\sin x + \sin x \cot^2 x$.

$$Sinx(1 + cot2x)$$

$$I+cot2x = csc2$$

$$Sinx(1 + cot2x)$$

$$Sinx(1 + co$$

14.
$$\frac{\csc \theta}{\cot \theta}$$

$$\cot \theta = \frac{\cos \theta}{\sinh \theta}$$

$$\frac{\csc \theta}{\cot \theta} = \csc \theta \cdot \frac{1}{\cot \theta}$$

$$\frac{1}{\sec \theta} = \frac{1}{\cos \theta}$$

$$\frac{1}{\cos \theta} = \frac{1}{\cos \theta}$$

$$\frac{1}{\cos \theta} = \frac{1}{\cos \theta}$$

$$\frac{1}{\cot \theta} = \tan \theta$$

15. $\cos x \csc x \tan x = 1$

16. $\cos x \cot x + \sin x$

$$\frac{\cos x}{\sin x} + \sin x$$

$$\frac{\cos x}{\sin x} + \frac{\sin x}{\sin x}$$

$$\cos x + \sin x$$

$$\cos x$$

