(4) Simplify $\sin x+\sin x \cot ^{2} x$.
15. $\cos x \csc x \tan x$


$$
\begin{aligned}
& \csc x=\frac{1}{\sin x} \\
& \tan x=\frac{\sin x}{\cos x}
\end{aligned}
$$

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

$$
\begin{aligned}
& \cos x \frac{\cos x}{\sin x}+\sin x \\
& \frac{\cos ^{2} x}{\sin x}+\frac{\sin x}{1} \cdot \frac{\sin x}{\sin x}
\end{aligned}
$$

$$
\frac{\cos ^{2} x}{\sin x}+\frac{\sin ^{2} x}{\sin x}
$$

$$
\frac{\cos ^{2} x+\sin ^{2} x}{\sin x}
$$

$$
\cos ^{2} x+\sin ^{2} x=1
$$

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



