48. $\sin x \cos x \sec x \cot x$ $\sec x=\frac{1}{\cos x}$ $\sin x \cos x \frac{1}{\cos x} \frac{\cos x}{\sin x}$ $\cot x=\frac{\cos x}{\sin x}$ $\cos x$
49. $\cos x \tan x+\sin x \cot x$

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

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

$$
\sin x+\cos x
$$

36. $\cot \theta=-8 \frac{3 \pi}{2}<\theta<2 \pi ; \csc \theta$

$$
\begin{gathered}
1+(-8)^{2}=\csc ^{2} \theta \\
\pm \sqrt{65}=\sqrt{\csc ^{2} \theta} \\
-\sqrt{65}=\csc \theta
\end{gathered}
$$

$$
\begin{aligned}
& \text { 27. } \sin \theta=\frac{1}{4}, 0<\theta<\frac{\pi}{2} ; \cos \theta \\
& \left(\frac{1}{4}\right)^{2}+\cos ^{2} \theta=1-\frac{1}{16} \\
& -\frac{1}{16} \sqrt{\cos ^{2} \theta}= \pm \sqrt{\frac{15}{16}} \\
& \cos \theta=\frac{\sqrt{15}}{4}
\end{aligned}
$$

$$
\begin{aligned}
& \text { 44. } \frac{\sec x}{\tan x} \underset{\sec x \frac{1}{\tan x}}{ } \\
& \sec x=\frac{1}{\cdot \cos x} \\
& \frac{\frac{1}{\cos x}}{\frac{\sin x}{\cos x}} \cdot \begin{array}{c}
\sec x \cot x \\
\frac{1}{\cos x} \frac{\cos x}{\sin x} \\
\cos x \\
\sin x
\end{array} \\
& \frac{1}{\sin x}=\csc x
\end{aligned}
$$

$$
\begin{aligned}
W=\frac{e A S}{\sec \theta} & =e A S \frac{1}{\sec \theta} \\
& =e A S \cos \theta
\end{aligned}
$$

