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$$
\begin{aligned}
& 0 \leq x<360^{\circ} \\
& \text { 26. } 2 \cos ^{2} x+3 \cos x-2=0 \\
& 2 x^{2}+3 x-2-1-\frac{1}{i-2} \\
& (2 \cos x-1)(\cos x+2)=0 \\
& 2 \cos x-1=0 \quad \cos x+2=0 \\
& \cos x=\frac{1}{2} \\
& \cos x<-2 \\
& x=60^{\circ}, 360^{\circ} \\
& \frac{(2 x-1)(x+2)}{4 x-x} \\
& \text { 27. } \sin 2 x=-\sin x \quad 0 \leq x<360^{\circ} \\
& 2 \sin x \cos x=-\sin x \\
& 2 \sin x \cos x+\sin x=0 \\
& \sin x(2 \cos x+1)=0 \\
& \sin x=0 \\
& x=0^{\circ}, 180^{\circ} \\
& 2 \cos x+1=0 \\
& \cos x=-\frac{1}{2} \\
& x=120^{\circ}, 240^{\circ}
\end{aligned}
$$

24. $\cos x \tan x=\frac{1}{2} \quad 0^{\circ} \leq x<360^{\circ}$

$$
\begin{gathered}
\cos x \frac{\sin x}{\cos x}=\frac{1}{2} \\
\sin x=\frac{1}{2} \\
x=30^{\circ}, 150^{\circ}
\end{gathered}
$$

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$$
\begin{aligned}
& 0 \leq x \rightarrow 360^{\circ} \quad 0 \leq x<2 \pi \\
& \sqrt{2} \sin x-1=0 \quad \sqrt{2} \sin x-1=0 \\
& \sin x=\frac{1}{\sqrt{2}} \\
& \sin x=\frac{\sqrt{2}}{2} \\
& x=45^{\circ}, 135^{\circ} \\
& \sin x=\frac{1}{\sqrt{2}} \\
& 45 \cdot \frac{\pi}{180}=\frac{45 \pi}{180}=\frac{\pi}{4} \\
& \sin x=\frac{\sqrt{2}}{2} \quad 135 \cdot \frac{\pi}{180}=\frac{135 \pi}{180}=\frac{3 \pi}{4} \\
& x=\frac{\pi}{4}, \frac{3 \pi}{4} \\
& \text { for all real values of } x \\
& \sqrt{2} \sin x-1=0 \\
& \begin{array}{l}
\sin x=\frac{\sqrt{2}}{2} \\
2 \pi K, K=, h \text { tiger }
\end{array} \\
& X=\frac{3 \pi}{4}+2 \pi k_{1} k=\text { integer }
\end{aligned}
$$

