4.6 Graphs of Other Trig Functions "Day 1"
I. Graph $y=\tan x=\frac{\sin x}{\cos x}$

Period: TT
 Range: $(\infty, \infty)$
va: $X=\frac{\pi}{2} \pm n \pi$


VA: $X=0 \times x^{n}$


$$
\text { IV. Graph } y=\sec x=\frac{1}{\cos x}
$$




$$
\begin{aligned}
& \text { Ex2) } y=2 \cot (x-\pi / 2) \quad y=2 \cot \left(x-\frac{\pi}{2}\right) \quad \cot x=\frac{\cos x}{\sin x}
\end{aligned}
$$

VI. Use a graph to Solve the equation on the interval. $[-2 \pi, 2 \pi]$

Ex3) $\begin{aligned} & \cot x=-\sqrt{3} \\ & \frac{\cos x}{\sin x}=\end{aligned}=\frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}}$
$\frac{5 \pi}{6}, \frac{11 \pi}{6}, \frac{-\pi}{6}, \frac{-7 \pi}{6}$

