Basic TRIG FActs
Cofunctions - Complemectiong
$\sin 20^{\circ}=\cos 70^{\circ}$ $\sin \theta$
$\sec 2^{\circ}=\csc 88^{\circ}$

$$
\begin{array}{r}
\tan 53^{\circ} 10^{\prime}=\cot 36^{\circ} 50^{\prime} 8960^{\prime} \\
\frac{-53^{\circ} 10^{\prime}}{36^{\circ} 50^{\prime}}
\end{array}
$$

$$
\begin{aligned}
& \csc \frac{\pi}{6}=\sec \pi / 3 \leftarrow \\
& \pi / 2-\pi / 6=\frac{3 \pi}{6}-\pi / 6=2 \pi / 6
\end{aligned}
$$



Flud quadrant(s)?

$$
\begin{gathered}
\csc \theta>0 \tan \theta<0 \text { II } \\
+\frac{1 x}{x} \\
\sec \theta<0 \sin \theta<0 \text { III }
\end{gathered}
$$



$$
\begin{aligned}
& \sin \theta=\frac{y}{r} \\
& \text { shc } K=\frac{\text { ypur }}{\text { otan }} \\
& \csc \theta=\frac{r}{y} \\
& \cos \theta=\frac{x}{h} \\
& \operatorname{craz} y=\frac{\text { xplophens }}{\operatorname{light}} \sec \theta=\frac{r}{x} \\
& \tan \theta=\frac{y}{x} \quad \text { tirang }=\frac{y \operatorname{your}}{x} \cot \theta=\frac{x}{y}
\end{aligned}
$$



$$
\begin{aligned}
& \sin (-\theta)=-\frac{y}{r}=-\sin \theta \\
& \cos (-\theta)=\frac{x}{r}=\cos \theta \\
& \tan (-\theta)=-\frac{y}{x}=-\tan \theta
\end{aligned}
$$



Even
$f(-x)=f(x)$
Odd

$$
\frac{\text { Odd }}{f(-x)}=-f(x)
$$



$$
\tan (-\theta)=\frac{3}{2} \quad \cos (-\theta)=\frac{2}{3}
$$

$$
\tan (\theta)=-3 / 2
$$

Possible /Impassible values


$$
\begin{aligned}
& \sin \theta=\frac{y}{r} \\
& \cos \theta=\frac{x}{r} \\
& \csc \theta=\frac{r}{y} \\
& \sec \theta=\frac{y}{x}
\end{aligned}
$$

$$
\cot \theta=\frac{x}{y}
$$



