

$$
\operatorname{Sin} \theta=\frac{\text { Opposite }}{\text { Hypotenuse }}
$$

$$
\cos \theta=\frac{\text { adjacent }}{\text { Hypotarse }}
$$



Examples: Fined

$S \frac{O}{M}$


$$
13 \times[\sin 60]=\left[\frac{x}{13}\right] \times 3
$$

$$
13 \sin 60=x
$$

$$
11.3=x
$$



$$
\begin{aligned}
& C \frac{A}{H 1} \\
& x \cdot[\cos 45]=\left[\frac{4}{x}\right] \cdot x \\
& \frac{x \cos 45}{\operatorname{Cos} 45}=\frac{4}{\cos 45} \\
& x=\frac{4}{\cdots}
\end{aligned}
$$

$$
x=5.66
$$

Find $x$ using $\operatorname{Cos}^{-1}$, $\operatorname{Sin}^{-1}$ and Tan $^{-1}$

$$
\begin{aligned}
& \text { Find } \\
& \operatorname{Tan} x=\frac{\text { OPP }}{a d j} \quad \operatorname{Cos} x=\frac{\text { adj }}{\text { hyp }} \\
& \sin x=\frac{\text { opp }}{\text { hyp }} \\
& \operatorname{Tan} x=\frac{5}{12} \\
& \cos x=\frac{12}{13} \\
& \sin x=\frac{5}{13} \\
& x=\operatorname{Tan}^{-1}\left[\frac{5}{12}\right] \\
& x=\operatorname{Cos}^{-1}\left[\frac{12}{13}\right] \\
& x=\sin ^{-1}\left[\frac{5}{13}\right] \\
& x=22.6^{\circ} \\
& x=22.6^{\circ} \\
& x=22.6^{\circ}
\end{aligned}
$$



$$
6.5=x
$$

$$
\begin{aligned}
& \text { Homewan } / \mathrm{g}: \text { ro CH } 3.2 \\
& \text { Q: 1-13odd }
\end{aligned}
$$

