## 5-1 Trig Functions

Writing Trig Ratios Task




Find all trig ratios for the given triangle:

$$
\begin{aligned}
& \sin \theta=\frac{8}{17} \\
& \cos \theta=\frac{15}{17} \\
& \tan \theta=\frac{8}{15}
\end{aligned}
$$



Find all trig ratios for the given triangle:

$$
\begin{aligned}
& \sin \theta=\frac{5}{5 \sqrt{5}}=\frac{1}{\sqrt{5}} \\
& \cos \theta=\frac{18}{5 \sqrt{5}}=\frac{2}{\sqrt{5}} \\
& \tan \theta=\frac{50}{10}=\frac{1}{2}
\end{aligned}
$$



Find all trig ratios for the given triangle:
$\sin 25^{\circ}=\frac{x}{2}$
$\cos 25=Y$
$\operatorname{Tan} 25^{\circ}=\frac{\bar{x}}{y}$


Find all trig ratios for the given triangle:

$$
\begin{aligned}
& \sin \theta=\frac{62}{63}=\frac{2}{3} \\
& \cos \theta=\frac{81}{33}=\frac{1}{3} \\
& \tan \theta=\frac{6}{3}=2
\end{aligned}
$$

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Use a Calculator to find the following:
    \(\sin (27)=.454 \quad \sin ^{-1}(3 / 5)=36.87\)
    \(\cos (58)=\quad \cos ^{-1}(17.5)=\)
    \(\tan (81)=\quad \tan ^{-1}(21 / 7)=\)
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