## 5-1 Trig Functions

Writing Trig Ratios Task

SHH $\left.\sin \theta=\frac{o p p}{\text { hyp }}\right\}$ sides of $\underset{\Delta}{\theta=\text { angle }}$
DAH $\cos \theta=\frac{\text { adj }}{\text { hyp }}$
DOA $\tan \theta=\frac{\text { opp }}{\text { adj }}$


Find all trig ratios for the given triangle: $\sin \theta \cdot \cos \theta \cdot \tan \theta$

$$
\begin{aligned}
& \sin \theta \cdot \cos \theta \cdot \tan \theta \\
& \sin \theta=\frac{o p p}{n y p}=\frac{8}{17} \\
& \cos \theta=\frac{\operatorname{adj}}{h y p}=\frac{15}{17}
\end{aligned} \quad \tan \theta=\frac{\text { app }}{a d j}=\frac{8}{15}
$$



Find all trig ratios for the given triangle:

$$
\begin{aligned}
& \sin \theta=\frac{o p p}{n y p}=\frac{1}{\sqrt{5}}=\frac{1}{\sqrt{5}} \tan \theta=\frac{o p p}{a d j}=\frac{5}{10} \\
& \cos \theta=\frac{a d j}{h_{y p}}=\frac{1}{25}=\frac{1}{5}
\end{aligned}
$$



$\square$

