## Warm Up

Find the missing side in the right triangle using the pythagorean



Find:


Find:
$\begin{array}{ll}\sin A=\frac{6}{10}=\frac{3}{5} & \sin B=\frac{8}{10}=\frac{4}{5} \\ \cos A=\frac{8}{10}=\frac{4}{5} & \cos B=\frac{6}{10}=\frac{3}{5} \\ \tan A=\frac{6}{8}=\frac{3}{4} & \tan B=\frac{8}{6}=\frac{4}{3} \\ { }^{*} \csc A=\frac{5}{3} & { }^{*} \csc B=\frac{5}{4} \\ { }^{*} \sec A=\frac{5}{4} & { }^{*} \sec B=\frac{5}{3} \\ { }^{*} \cot A=\frac{4}{3} & { }^{*} \cot B=\frac{3}{4}\end{array}$



Find the all other trigonometric functions: (hint: draw a triangle)

$$
\begin{aligned}
& \sin \theta=\frac{3}{5}=\frac{0}{4} \quad \csc \theta=5 / 3 \\
& \cos \theta=4 / 5 \sec \theta=5 / 4 \\
& \tan \theta=3 / 4 \quad \cot \theta=\frac{4}{3}
\end{aligned}
$$

Find the other six trigonometric functions:
(hint: draw a triangle)

$$
\begin{array}{ll}
\cos \theta=\frac{12}{13} & \sec \theta=13 / 12 \\
\operatorname{Tan} \theta=5 / 12 & \cot \theta=12 / 5 \\
\sin \theta=\frac{5}{13} & \csc \theta=13 / 5
\end{array}
$$

