8.3 Solving rt. s's
$E_{x}$ : Use the given trig rato fo determine which L of the $\Delta$ is $\angle A$.

$$
\sin A=\frac{8}{17}=\frac{14}{30.6}
$$

(2)


$$
\tan A=1.875=\frac{27}{14.4}
$$

Inverse Trig ratios
i) if $\sin A=x$, then $\sin ^{-1} x=m \angle A$
ii) if $\cos A=x$, then $\cos ^{-1} x=m \angle A$
iii) if $\tan A=x$, then $\tan ^{-1} x=m \angle A$

- Inverse trig ratios give us the angle measure knowing only the side lengths.




$$
\begin{gathered}
\cos ^{-1} \frac{5}{5.7}=z \\
28.7^{\circ}=z \\
\tan ^{-1} \frac{5}{2.74}=y \\
y=61.3^{\circ}
\end{gathered}
$$

$$
\begin{aligned}
& 5^{2}+x^{2}=5.7^{2} \\
& 25+x^{2}=32.49 \\
& \frac{-25}{} \begin{array}{l}
-25 \\
\hline x^{2}-17.47 \\
x=2.74
\end{array}
\end{aligned}
$$

$$
\begin{gathered}
\text { p. } 5372-14 \text { even } \\
21-35 \text { odd } \\
\text { all for atm } \\
\text { credit }
\end{gathered}
$$

