2.5 Using Sine \& Cosine Ratios to Calculate Lengths

$$
\sin =\frac{\text { opp }}{\text { hyp }}
$$

$$
\sin \angle C=\frac{0}{h}
$$



$$
\cos \angle C=\frac{a}{h}
$$

Sin or Cos ratios or angles


Ex.相
Length of $P Q$ ?


$$
\begin{array}{r}
\sin 67^{\circ}=\frac{0}{h} \\
\frac{\sin 67^{\circ}}{1}=\frac{x}{10.4} \\
(10.4)\left(\frac{\left.\sin 67^{\circ}\right)}{}=x\right. \\
9.57_{c m}=x
\end{array}
$$

Ex, \#2

Ex.\#2
length of JK?


$$
\sin 65^{\circ}=\frac{0}{h}=\frac{7.6}{x}
$$



$$
\begin{aligned}
x \frac{\left(\sin 65^{\circ}\right)}{\sin 65^{\circ}} & =\frac{7.6}{(\sin 65)} \\
x & =0.39 \mathrm{~cm}
\end{aligned}
$$

Exercises pg. 101 \#3-6, 12

