Quiz 16
Find the tension in both ropes.



$$
\begin{gathered}
\frac{T_{2}}{\sin 70^{\circ}}=\frac{F_{g}}{\sin 70^{\circ}} \\
\therefore T_{2}=F_{g}=98 \mathrm{~N} \\
\begin{aligned}
\frac{T_{1}}{\sin 40^{\circ}} & =\frac{F_{g}}{\sin 70^{\circ}} \quad T_{1}
\end{aligned}=\sqrt{9} \frac{\sin 40^{\circ}}{\sin 70^{\circ}} \mathrm{V} \\
\\
=67 \mathrm{~N}
\end{gathered}
$$

