

$$23^2 = 17^2 + 18^2 - 2(17)(18)\cos A \quad \boxed{\#9}$$

Solving
 Δ

$$529 = 289 + 324 - \underline{612 \cos A}$$

$$\begin{array}{r} 529 = 613 - \underline{612 \cos A} \\ -613 \quad -613 \\ \hline \end{array}$$

$$\begin{array}{r} -84 = -\underline{612 \cos A} \\ \underline{-612} \quad \underline{-612} \\ \hline \end{array}$$

$$\begin{array}{r} -84 = -612m \\ \underline{-612} \quad \underline{-612} \\ \hline \end{array}$$

$$.1372 = \cos A$$

$$\cos^{-1}(.1372) = A = 82.1^\circ$$

total
angle

$$\frac{\sin B}{18} = \frac{\sin 82.1}{23}$$

$$\begin{array}{r} 23 \cdot \sin B = 18 \cdot \sin 82.1 \\ \underline{23} \quad \underline{23} \end{array}$$

$$\sin B = .77518$$

$$\sin^{-1}(.77518)$$

$$\angle B = 50.8^\circ$$

$$m\angle C = 180 - 82.1 - 50.8$$

$$m\angle C = 47.1^\circ$$