19 This triangle is of the form SSA. It is ambiguous.

$$\frac{\sin\beta}{b}=\frac{\sin\alpha}{a} \Rightarrow \sin\beta=\frac{b\sin\alpha}{a}=\frac{9\sin 20^\circ}{7} \Rightarrow \beta_R=\sin^{-1}\left(\frac{9\sin 20^\circ}{7}\right)\approx 26.1^\circ$$

Thus, $\beta\approx 26.1^\circ$ or $\beta\approx 180^\circ-26.1^\circ=153.9^\circ$.

Solution 1: Let $\beta\approx 26.1^\circ$. Then $\gamma\approx 180^\circ-20^\circ-26.1^\circ\approx 133.9^\circ$.

$$\frac{c}{\sin\gamma}=\frac{a}{\sin\alpha} \Rightarrow c=\frac{a\sin\gamma}{\sin\alpha}=\frac{7\sin 133.9^\circ}{\sin 20^\circ}\approx 14.7$$

$\beta\approx 26.1^\circ$, $\gamma\approx 134^\circ$, $c\approx 14.7$

Solution 2: Let $\beta\approx 153.9^\circ$. Then $\gamma\approx 180^\circ-20^\circ-153.9^\circ\approx 6.1^\circ$.

$$\frac{c}{\sin\gamma}=\frac{a}{\sin\alpha} \Rightarrow c=\frac{a\sin\gamma}{\sin\alpha}=\frac{7\sin 6.1^\circ}{\sin 20^\circ}\approx 2.17$$

$\beta\approx 154^\circ$, $\gamma\approx 6.1^\circ$, $c\approx 2.17$