

$$\boxed{13} \quad a^2 = b^2 + c^2 - 2bc \cos \alpha \Rightarrow \cos \alpha = \frac{a^2 - b^2 - c^2}{-2bc} \Rightarrow \alpha = \cos^{-1} \left(\frac{5^2 - 7^2 - 9^2}{-2(7)(9)} \right) \approx 33.55731^\circ$$

$$b^2 = a^2 + c^2 - 2ac \cos \beta \Rightarrow \cos \beta = \frac{b^2 - a^2 - c^2}{-2ac} \Rightarrow \beta = \cos^{-1} \left(\frac{7^2 - 5^2 - 9^2}{-2(5)(9)} \right) \approx 50.70352^\circ$$

$$\gamma = 180^\circ - 33.55731^\circ - 50.70352^\circ \approx 95.73917^\circ$$

$$\alpha \approx 33.6^\circ, \quad \beta \approx 50.7^\circ, \quad \gamma \approx 95.7^\circ$$