

$$\text{Ex. } a=7, b=24, c=28$$

SSS case \rightarrow • find the largest angle
with the cosine rule
• find a smaller angle
with the sine rule

$$\cos \gamma = \frac{7^2 + 24^2 - 28^2}{2(7)(24)} \approx -0.4732$$

$$\underline{\underline{\gamma = 118.2^\circ}}$$

$$\frac{\sin \beta}{\cancel{24}} = \frac{\cancel{24} \sin 118.2^\circ}{28} = 0.7554$$

$$\underline{\underline{\beta = 49.1^\circ}}$$

$$\underline{\underline{\alpha = 12.7^\circ}}$$