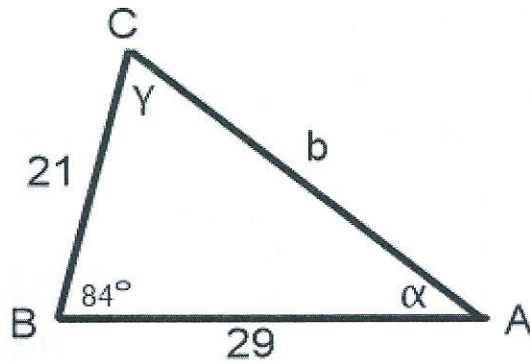


✓ C) Solve the triangle below. State your answers for side length and angles to two decimal places.



$$b^2 = 21^2 + 29^2 - 2 \cdot 21 \cdot 29 \cdot \cos 84^\circ$$

$$b^2 = 1154.684$$

$$b = 33.98$$

$$\frac{\sin 84^\circ}{33.98} = \frac{\sin \gamma}{29}$$

$$\frac{29 \sin 84^\circ}{33.98} = \frac{33.98 \sin \gamma}{33.98}$$

$$\sin^{-1}\left(\frac{29 \sin 84^\circ}{33.98}\right) = \gamma = 58.08^\circ$$

$$\beta = 180^\circ - 84^\circ - 58.08^\circ$$

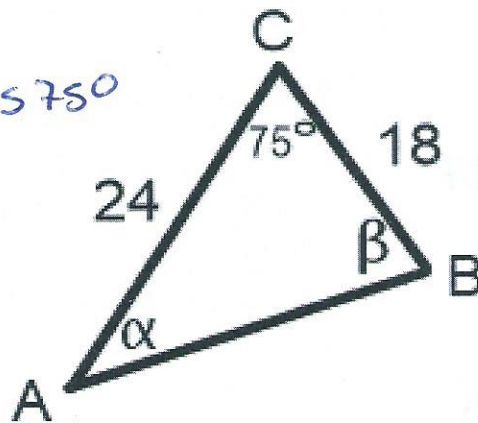
$$\beta = 37.92^\circ$$

✓ D) Solve the triangle below. State your answers for side length and angles to two decimal places.

$$c^2 = 24^2 + 18^2 - 2 \cdot 24 \cdot 18 \cdot \cos 75^\circ$$

$$c^2 = 676.38$$

$$c = 26.01$$



$$\frac{\sin 75^\circ}{26.01} = \frac{\sin \alpha}{18}$$

$$\frac{18 \sin 75^\circ}{26.01} = \frac{26.01 \sin \alpha}{26.01}$$

$$\sin^{-1}\left(\frac{18 \sin 75^\circ}{26.01}\right) = \alpha = 41.95^\circ$$

$$\beta = 180^\circ - 75^\circ - 41.95^\circ$$

$$\beta = 63.05^\circ$$