Answer on Question #53918, Math – Calculus

Solve the triangle.

A = 48°, a = 32, b = 27

Answer

Due to sine theorem

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} \rightarrow \sin B = \frac{b * \sin A}{a} \approx 0.627 \rightarrow \boldsymbol{B} = sin^{-1}0.627 \approx \boldsymbol{39^0}$$

$$A + B + C = 180^0 \rightarrow \boldsymbol{C = 93^0}$$

$$c = \frac{a * \sin C}{\sin A} \approx \boldsymbol{43}$$