

Ασκ: Να επιλυθεί τρίγωνο ΑΒΓ, με $A=28^\circ$, $B=48^\circ$
και $a=23$

Λύση

$$\frac{a}{\eta\mu A} = \frac{b}{\eta\mu B} \Leftrightarrow$$

$$\frac{23}{\eta\mu 28^\circ} = \frac{b}{\eta\mu 48^\circ} \Leftrightarrow$$

$$\frac{23}{0,469} = \frac{b}{0,743} \Leftrightarrow$$

$$0,469 \cdot b = 23 \cdot 0,743 \Leftrightarrow$$

$$0,469 \cdot b = 17,089 \Leftrightarrow$$

$$b = \frac{17,089}{0,469} \Leftrightarrow$$

$$b = 36,437$$

$$\hat{\Gamma} = 180^\circ - (28^\circ + 48^\circ) = 180^\circ - 76^\circ = 104^\circ$$

$$\frac{a}{\eta\mu A} = \frac{\gamma}{\eta\mu \Gamma} \Leftrightarrow$$

$$\frac{23}{\eta\mu 28^\circ} = \frac{\gamma}{\eta\mu 104^\circ} \Leftrightarrow$$

$$\frac{23}{0,469} = \frac{\gamma}{0,97} \Leftrightarrow$$

$$0,469 \cdot \gamma = 23 \cdot 0,97 \Leftrightarrow$$

$$0,469 \cdot \gamma = 22,31 \Leftrightarrow$$

$$\gamma = \frac{22,31}{0,469} \Leftrightarrow$$

$$\gamma = 47,569$$