Answer on Question #42444 – Math – Geometry

Find the area of the triangle with the given measurements. Round the solution to the nearest hundredth if necessary.

A = 46°, b = 27 ft, c = 14 ft

help me please

Solution:

$A = 46°, b = 27 \text{ ft}, c = 14 \text{ ft}$

Formula for the area of the triangle (two sides and angle between them):

$$A = \frac{b \cdot c \cdot \sin A}{2} = \frac{27 \text{ ft} \cdot 14 \text{ ft} \cdot \sin(46°)}{2} = 136 \text{ ft}^2$$

Answer: area of the triangle is equal to 136 ft^2.