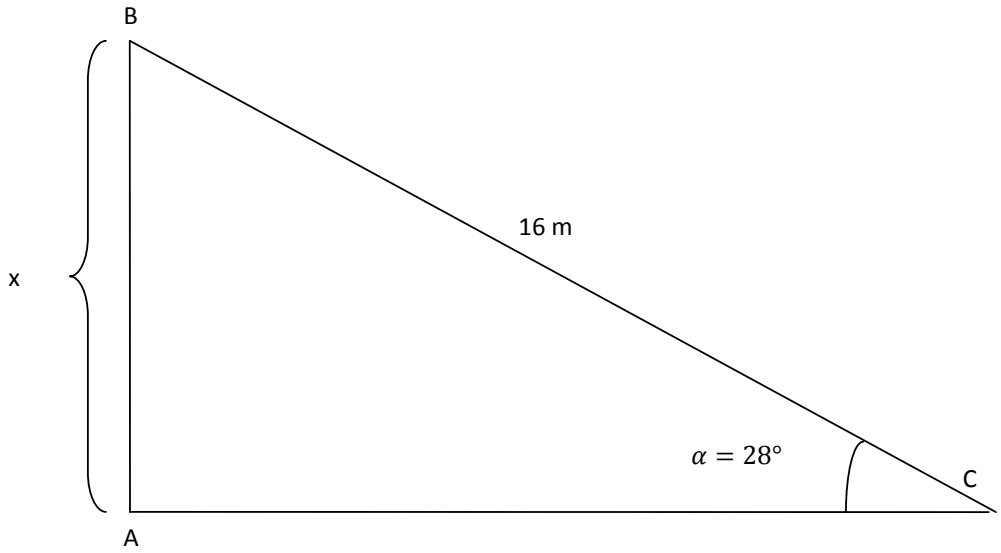
One acute angle of a right triangle measures 28 degrees. To the nearest tenth what is the length of the side opposite that angle if the hypotenuse measures 16 meters

Solution:



By the definition:

$$\frac{AB}{BC} = \frac{x}{BC} = sin\alpha.$$

So we have

$$x = BC \cdot sin\alpha = 16 \cdot sin28° \approx 7{,}5\ (m).$$

Answer:

7,5 m.