

## Answer on Question #83400 – Math – Trigonometry

### Question

A right triangle has a hypotenuse of length 7 mm and one leg of length 3 mm.

How long is the other leg?

a) 12.6 mm

b) 2 mm

c) 4 mm

d) 6.3 mm

### Solution

$a = 7\text{mm}$ ,  $b = 3\text{mm}$ ,

$$c = \sqrt{a^2 - b^2} = \sqrt{7^2 - 3^2} = \sqrt{49 - 9} = \sqrt{40} = 6.3$$

**Answer:** d) 6.3 mm.