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

$a = 7$mm, $b = 3$mm,

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

Answer: d) 6.3 mm.