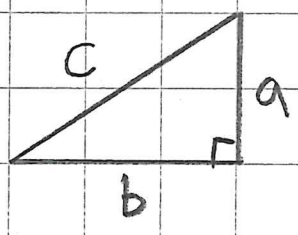
S. 49



$$a^2 + b^2 = c^2$$

167

c) $5{,}2^2 + 8{,}3^2 = x^2$

$27{,}04 + 68{,}89 = x^2$

$95{,}93 = x^2$

$x = \sqrt{95{,}93}$

$x = 9{,}794\ldots$

$x \approx 9{,}8$ mm

d) $39^2 + 47^2 = x^2$

$1521 + 2209 = x^2$

$3730 = x^2$

$x = \sqrt{3730}$

$x = 61{,}07\ldots$

$x \approx 61$ dm

168

c) $x^2 + 10{,}2^2 = 13{,}7^2$

$x^2 + 104{,}04 = 187{,}69 \quad \| -104{,}04$

$x^2 = 83{,}65$

$x = \sqrt{83{,}65}$

$x = 9{,}1460\ldots$

$x \approx 9{,}1$ cm

d) $x^2 + 0{,}8^2 = 1{,}1^2$

$x^2 + 0{,}64 = 1{,}21 \quad \| -0{,}64$

$x^2 = 0{,}57$

$x = \sqrt{0{,}57} = 0{,}754\ldots \approx 0{,}8$ m