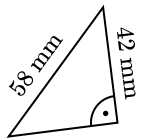


Satz des Pythagoras

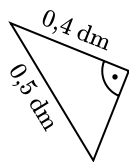
Aufgabe

Berechnen Sie die jeweils fehlende Dreiecksseite mit Hilfe des Satzes von Pythagoras:

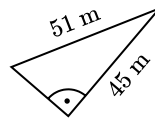
a)



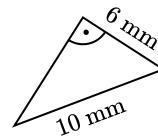
b)



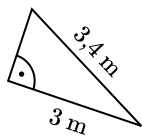
c)



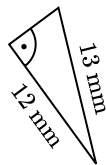
d)



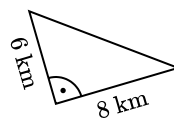
e)



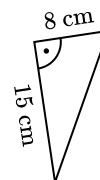
f)



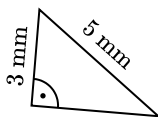
g)



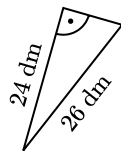
h)



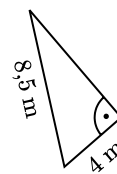
i)



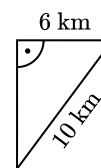
j)



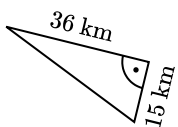
k)



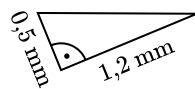
l)



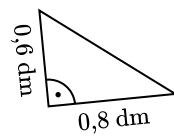
m)



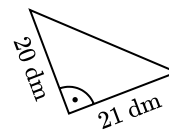
n)



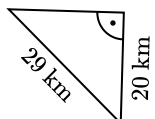
o)



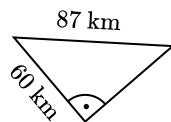
p)



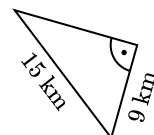
q)



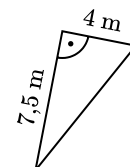
r)



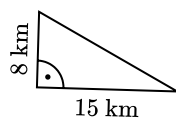
s)



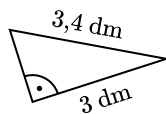
t)



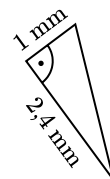
u)



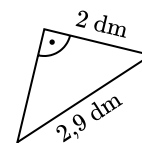
v)



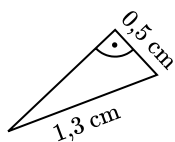
w)



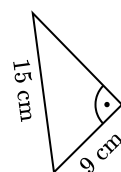
x)



y)



z)



Rechenweg

a) $\sqrt{(58 \text{ mm})^2 - (42 \text{ mm})^2} = 40 \text{ mm}$ b) $\sqrt{(0,5 \text{ dm})^2 - (0,4 \text{ dm})^2} = 0,3 \text{ dm}$

c) $\sqrt{(51 \text{ m})^2 - (45 \text{ m})^2} = 24 \text{ m}$ d) $\sqrt{(10 \text{ mm})^2 - (6 \text{ mm})^2} = 8 \text{ mm}$

e) $\sqrt{(3,4 \text{ m})^2 - (3 \text{ m})^2} = 1,6 \text{ m}$ f) $\sqrt{(13 \text{ mm})^2 - (12 \text{ mm})^2} = 5 \text{ mm}$

g) $\sqrt{(6 \text{ km})^2 + (8 \text{ km})^2} = 10 \text{ km}$ h) $\sqrt{(8 \text{ cm})^2 + (15 \text{ cm})^2} = 17 \text{ cm}$

i) $\sqrt{(5 \text{ mm})^2 - (3 \text{ mm})^2} = 4 \text{ mm}$ j) $\sqrt{(26 \text{ dm})^2 - (24 \text{ dm})^2} = 10 \text{ dm}$

k) $\sqrt{(8,5 \text{ m})^2 - (4 \text{ m})^2} = 7,5 \text{ m}$ l) $\sqrt{(10 \text{ km})^2 - (6 \text{ km})^2} = 8 \text{ km}$

m) $\sqrt{(15 \text{ km})^2 + (36 \text{ km})^2} = 39 \text{ km}$ n) $\sqrt{(0,5 \text{ mm})^2 + (1,2 \text{ mm})^2} = 1,3 \text{ mm}$

o) $\sqrt{(0,6 \text{ dm})^2 + (0,8 \text{ dm})^2} = 1 \text{ dm}$ p) $\sqrt{(20 \text{ dm})^2 + (21 \text{ dm})^2} = 29 \text{ dm}$

q) $\sqrt{(29 \text{ km})^2 - (20 \text{ km})^2} = 21 \text{ km}$ r) $\sqrt{(87 \text{ km})^2 - (60 \text{ km})^2} = 63 \text{ km}$

s) $\sqrt{(15 \text{ km})^2 - (9 \text{ km})^2} = 12 \text{ km}$ t) $\sqrt{(4 \text{ m})^2 + (7,5 \text{ m})^2} = 8,5 \text{ m}$

u) $\sqrt{(8 \text{ km})^2 + (15 \text{ km})^2} = 17 \text{ km}$ v) $\sqrt{(3,4 \text{ dm})^2 - (3 \text{ dm})^2} = 1,6 \text{ dm}$

w) $\sqrt{(1 \text{ mm})^2 + (2,4 \text{ mm})^2} = 2,6 \text{ mm}$ x) $\sqrt{(2,9 \text{ dm})^2 - (2 \text{ dm})^2} = 2,1 \text{ dm}$

y) $\sqrt{(1,3 \text{ cm})^2 - (0,5 \text{ cm})^2} = 1,2 \text{ cm}$ z) $\sqrt{(15 \text{ cm})^2 - (9 \text{ cm})^2} = 12 \text{ cm}$

Lösung

a) 40 mm
e) 1,6 m
i) 4 mm
m) 39 km
q) 21 km
u) 17 km
y) 1,2 cm

b) 0,3 dm
f) 5 mm
j) 10 dm
n) 1,3 mm
r) 63 km
v) 1,6 dm
z) 12 cm

c) 24 m
g) 10 km
k) 7,5 m
o) 1 dm
s) 12 km
w) 2,6 mm

d) 8 mm
h) 17 cm
l) 8 km
p) 29 dm
t) 8,5 m
x) 2,1 dm