

Pythagoras' Theorem

Literacy

Pythagoras' Theorem

Right-angled triangle

Hypotenuse

Research

Which other discoveries did Pythagoras make and do they still affect our everyday life today?

Memory

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

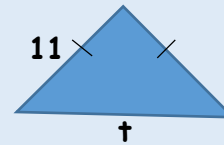
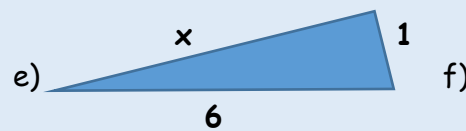
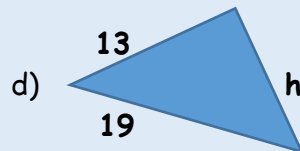
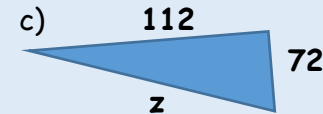
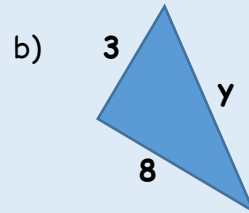
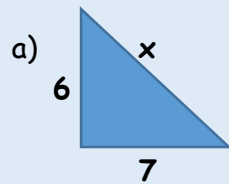
Hypotenuse

Help



Skills

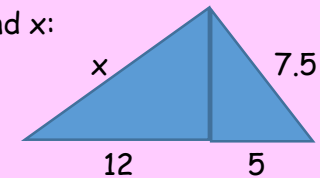
1) Find the unknown side (3 s.f.) of the following right-angled triangles:



2) Show that Triangle ABC with lengths 9 cm, 15 cm and 12 cm is a right-angled triangle.

Stretch

3) Find x:



4) A woman leaves home and walks 2 km to the North followed by 4 km to the West. How far, corrected to the nearest meter, is the woman from home?

5) Calculate the length of the line segment connecting points A(2, -7) and B(-1, -5).

Answer-key

1)

a) 9.22

b) 8.54

c) 133

d) 13.9

e) 5.92

f) 15.6

2) $9^2 + 12^2 = 15^2$

$$81 + 144 = 225$$

3) 13.2

4) 4472 m

5) 3.61

Check www.ExplainingMaths.com for more resources and help