

K Education Centre

GCSE Maths - Higher

Pythagoras Theorem and Trigonometry

Assignment Questions

©KEducationCentre
Year 2022

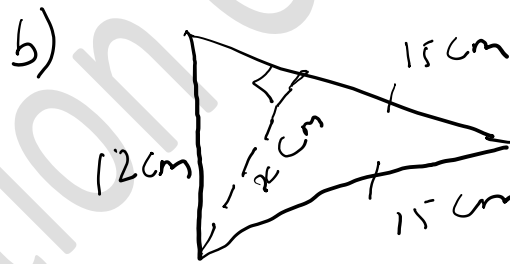
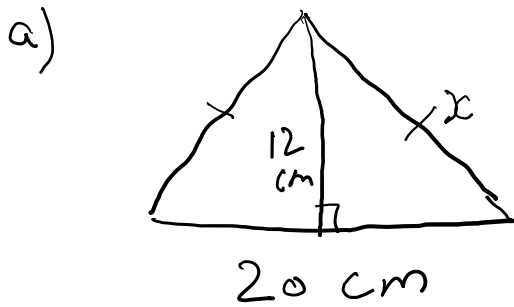
Pythagoras Theorem & Trigonometry -1

Q 1: A triangle with sides 8 cm , 23 cm and 25 cm a right angled triangle? Give reason for your answer.

Q 2: A ladder 6 m long is leaning against a wall . The foot of ladder is 2m from the wall. How far up the will ladder reach?

Q3: A ladder 6 m long leaning against the wall. The foot of the ladder is 3 m from the wall. The foot of the ladder is not securely held and slips away further 40 cm away from the wall. How far does the top of the ladder move down the wall?

Q4 : Calculate the length marked x



Q5: If $\tan x = \frac{6}{13}$. Find the value of $\sin x$ and $\cos x$ without using calculator.

Q7: If $\tan 45^\circ = 1$. Then use this fact to find the value of $\cos 45^\circ$ in square root form.

Q8: Work out the values of

a) $8 \tan 54^\circ$

b) $\frac{15}{\cos 60^\circ}$

c) $\frac{18}{\tan 81^\circ}$