

Trigonometry Exam Questions

ABC is a right-angled triangle.

$BC = 125$ m.

Angle $CAB = 33^\circ$.



Not drawn to scale

Find the length of AC (marked x in the diagram).
Give your answer to an appropriate degree of accuracy.

PQ is the of a ramp laid on level ground.

The ramp is 230 cm long and 20 cm high, as shown in the diagram.



Work out the size of angle x .

The area of the rectangle is 68 cm^2

Not drawn to scale



Work out the size of angle x .
 $68/16 = 4.25$

A ramp is 4 metres long and 29 centimetres high.
If the ramp is safe for wheelchair users the angle marked x must be 4° or less.



Is this ramp safe for wheelchair users?
You must show your working.

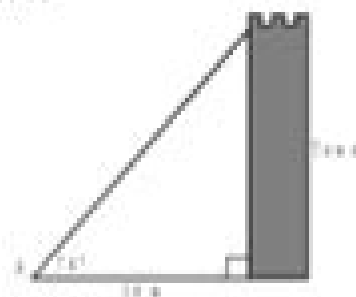
For a ladder to be safe it must be inclined at between 70° and 80° to the ground.
The diagram shows a ladder resting against a wall.



Not to scale

Is it safe?
You must show your working.

The point A is 50 metres from the base of a tower.
The angle of elevation of the top of the tower from A is 74° .



Calculate the height of the tower. Give your answer to a suitable degree of accuracy.

Gcse Trigonometry Questions Answers

G Psacharopoulos



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