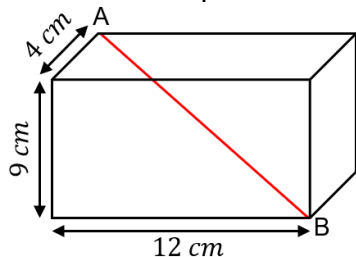


Geometry Revision

6

(a)

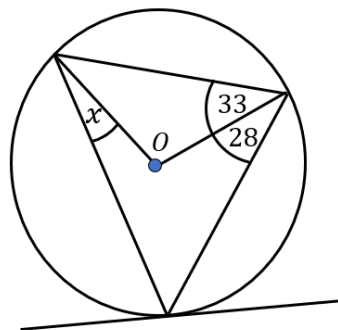
A cuboid has dimensions 4 cm by 9 cm by 12 cm . Find the length of the diagonal AB to 1 decimal place.



15.5 cm

(b)

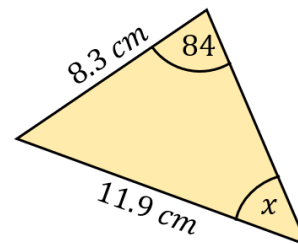
Find the value of angle x . Give reasons for your answers.



29°

(c)

Calculate the value of angle x , giving your answer to 1 decimal place.



43.9°

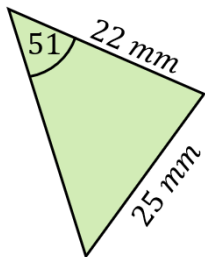
(d)

The two cylinders A and B are similar. The surface areas of A and B are 24 cm^2 and 73.5 cm^2 respectively. Given the volume of cylinder B is 171.5 cm^3 , find the volume of cylinder A.

32 cm^3

(e)

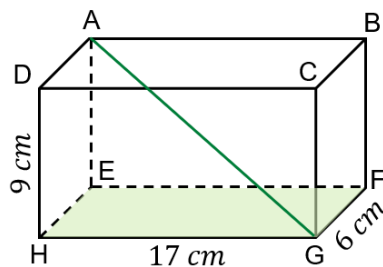
Find the area of the triangle shown, giving your answer to 3 significant figures.



274 mm^2

(f)

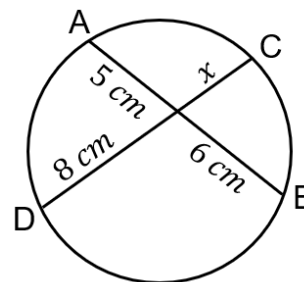
Find the angle that the line AG makes with the plane $EFGH$. Give your answer to 1 decimal place.



26.5°

(g)

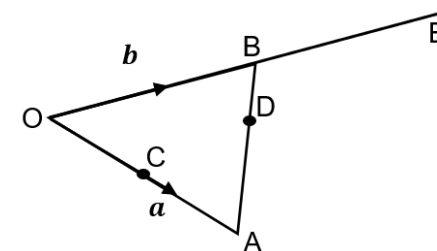
AB and CD are chords of the circle. Find the missing value x .



3.75 cm

(h)

$\vec{OA} = \mathbf{a}$ $\vec{OB} = \mathbf{b}$
 $\vec{OB} = \vec{BE}$. C is the midpoint of OA. Given that CDE is a straight line, find $BD : DA$



$1 : 2$