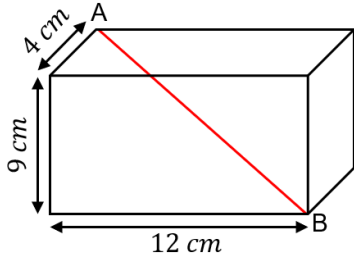


Geometry Revision

6

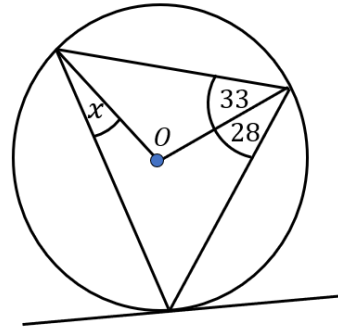
(a)

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



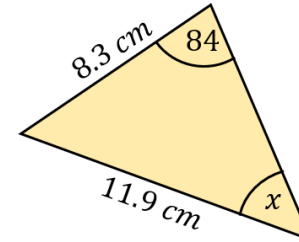
(b)

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



(c)

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

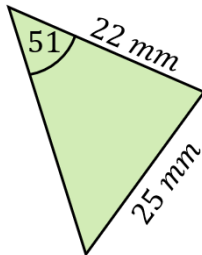


(d)

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.

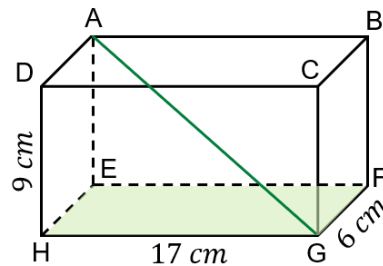
(e)

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



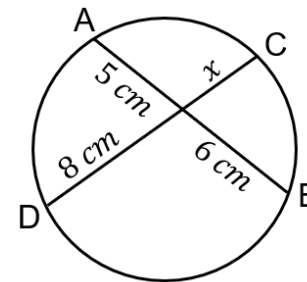
(f)

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



(g)

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



(h)

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

