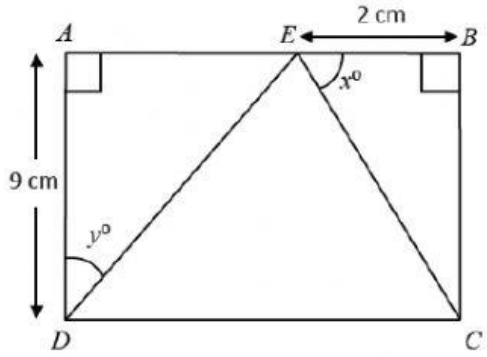
GEOMETRY AND MEASUREMENT (PL 4, 5 AND 6)

Write the answer in the box provided

Question 1



Dalam rajah, $ABCD$ ialah sebuah segi empat tepat. Diberi $\tan y° = \frac{2}{3}$. Cari nilai tan x°

In the diagram, ABCD is a rectangle. Given $\tan y° = \frac{2}{3}$. Find the value of tan x°.

A. $\frac{8}{9}$

B. $\frac{2}{3}$

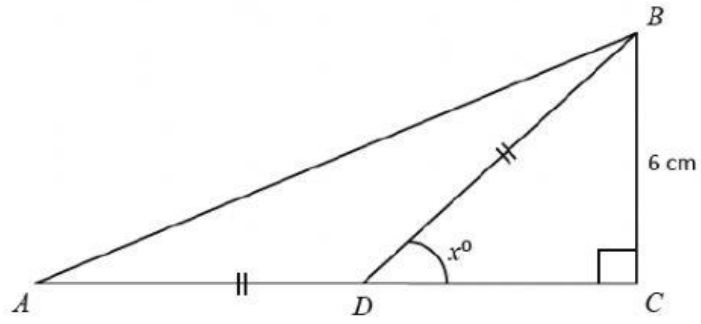
C. $\frac{9}{2}$

D. 3

Question 2

Rajah di bawah menunjukkan sebuah segi tiga bersudut tegak ABC dan $AD = BD$.

Diagram below shows a right angled triangle ABC and AD = BD



Diberi $\tan x° = \frac{3}{4}$, cari panjang AC dalam cm

Given $\tan x° = \frac{3}{4}$, find length of AC in cm

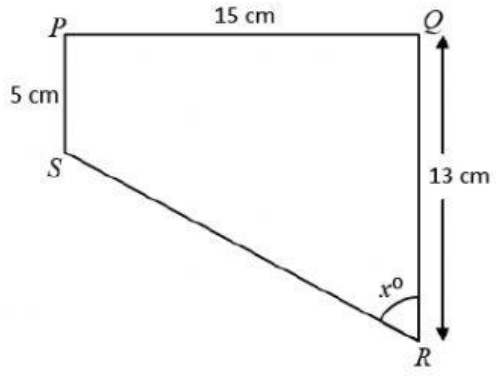
A. 8

B. 10

C. 14

D. 18

Question 3



Rajah menunjukkan sebuah trapezium $PQRS$. Cari nilai bagi kos $x°$.

The figure shows a PQRS trapezium. Find the value of cos x°

A. $\frac{5}{12}$

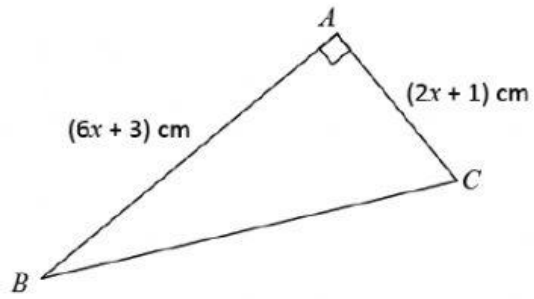
B. $\frac{12}{15}$

C. $\frac{8}{17}$

D. $\frac{15}{17}$

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Question 4



Rajah menunjukkan sebuah segi tiga bersudut tegak ABC.
Cari sudut refleks ABC, dalam darjah dan minit.
The figure shows a right -angled triangle ABC.
Find the reflex angle ABC, in degrees and minutes.

A. 18°36'

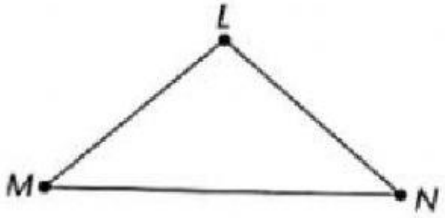
B. 71°24'

C. 161°24'

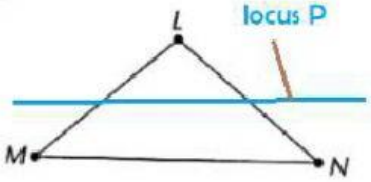
D. 341°34'

Question 5 :

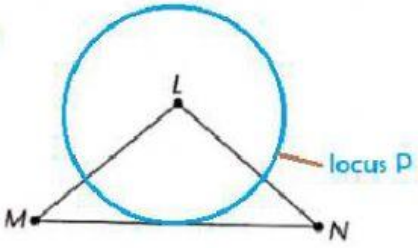
Titik P bergerak dengan keadaan jaraknya sentiasa sama dari garis LM dan LN.
The point P moves with the condition that its distance is always the same from the lines LM and LN.
Manakah antara berikut ada lokus bagi titik P?
Which of the following has a locus for point P?



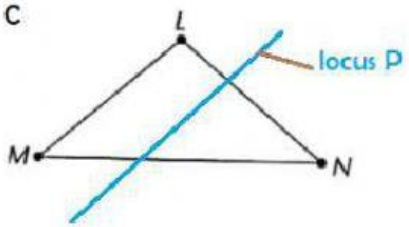
A



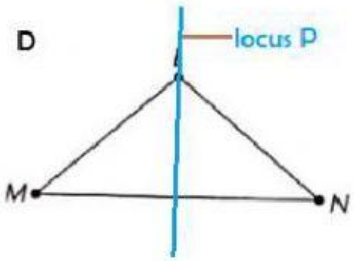
B



C



D

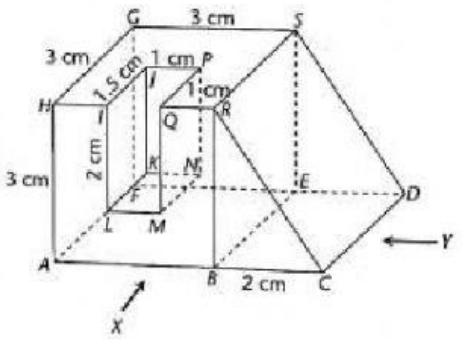


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Question 6

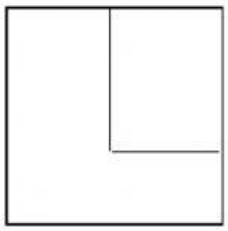
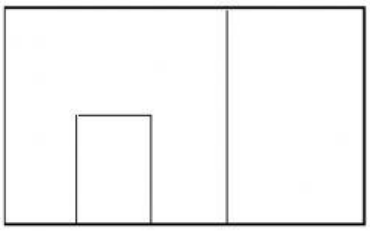
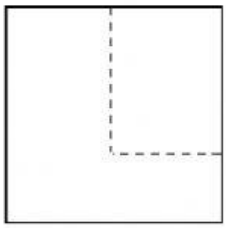
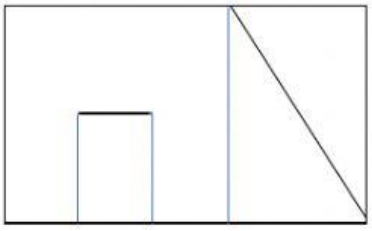
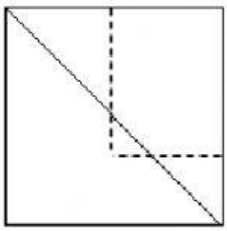
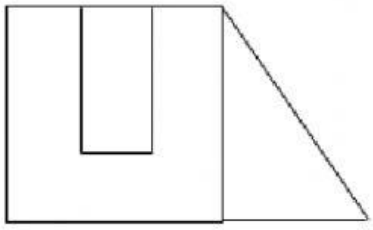
Sebuah kuboid tegak dipotong dan dikeluarkan daripada kubus tegak dan bentuk yang tinggal digabungkan dengan sebuah prisma tegak seperti yang ditunjukkan dalam rajah. Bentuk gabungan dengan tapak segi empat tepat ACDF diletakkan pada satah mengufuk. Segi tiga bersudut tegak RBC ialah keratan rentas seragam prisma itu.

An upright cuboid is cut and removed from the upright cube and the remaining shape is combined with an upright prism as shown in the figure. The combined shape with the rectangular base of ACDF is placed on the horizontal plane. The right -angled triangle RBC is the uniform cross section of the prism.



Drag ONE correct plan, elevation X and elevation Y for the shape into the answer space

Plan	
Elevation X	
Elevation Y	

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Question 7

Diagram 22 shows a square *PQRS*. *PQ* and *SR* are the diameters of two semicircles.
Rajah 22 menunjukkan segiempat sama sisi PQRS. PQ dan SR adalah diameter bagi dua separuh bulatan.

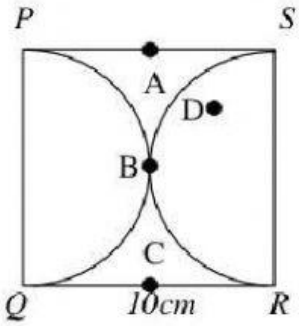


Diagram 22
Rajah 22

Which of the points **A**, **B**, **C** and **D** is 5 cm from the lines *PS* and *QR*?
*Antara titik-titik **A**,**B**, **C** dan **D** yang berjarak 5cm dari garis PS dan QR?*

Question 8

In Diagram 28, *PQRS* is a square and *O* is the centre of a circle with radius 7 cm.
Dalam Rajah 28, PQRS ialah sebuah segi empat sama dan O ialah pusat sebuah bulatan berjejari 7 cm.

X ialah lokus suatu titik yang bergerak dengan keadaan jaraknya sentiasa 7 cm dari O.
Y ialah lokus suatu titik yang bergerak dengan keadaan jaraknya sentiasa sama dari titik Q dan titik S. Antara titik A, B, C dan D, yang manakah persilangan lokus X dan lokus Y?

X is the locus of a moving point with the condition that its distance is always 7 cm from O.
Y is the locus of a moving point with the condition that its distance is always the same from point Q and point S. Between points A, B, C and D, which is the intersection of locus X and locus Y?

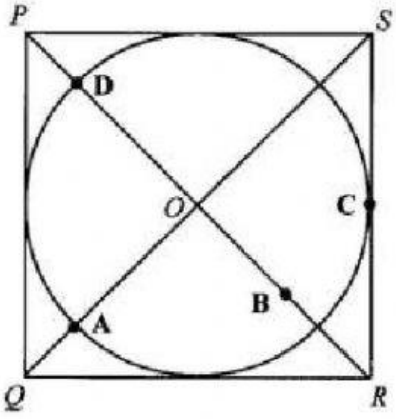


Diagram 28
Rajah 28

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