

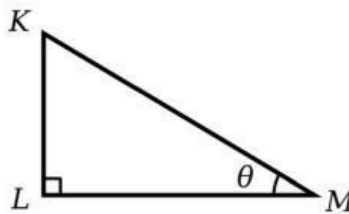
ULANGKAJI
Bahagian B / Section B

21. Lengkapkan.
Complete.

$$\frac{x^5 y^3 \times x^{\square} y^4}{x^2 y} = x^7 y^{\square}$$

[2 markah / marks]

22. (a) Rajah menunjukkan sebuah segi tiga bersudut tegak KLM.
The diagram shows a right-angled triangle KLM.

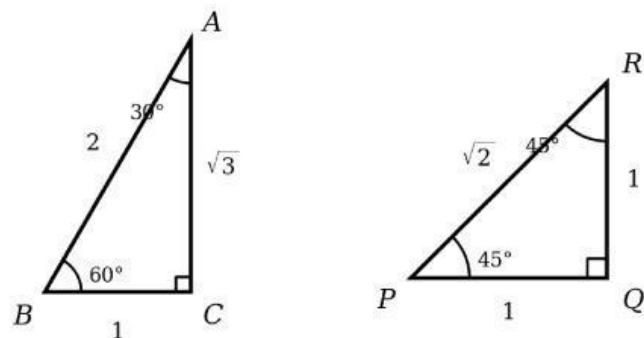


Kenal pasti hipotenus, sisi bertentangan dan sisi bersebelahan bagi sudut θ .
Identify the hypotenuse, opposite side and adjacent side for angle θ .

(i)	Hipotenus <i>Hypotenuse</i>	
(ii)	Sisi bertentangan <i>Opposite side</i>	
(iii)	Sisi bersebelahan <i>Adjacent side</i>	

[3 markah / marks]

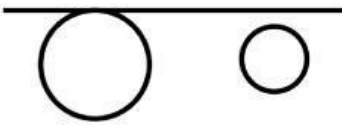
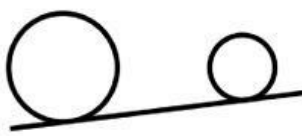
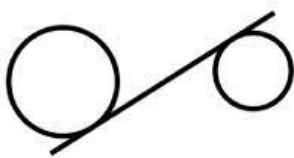
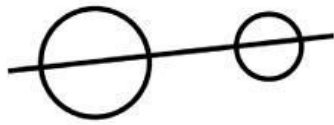
(b) Rajah menunjukkan dua buah segi tiga bersudut tegak. Lengkapkan jadual berikut.
 Diagram shows two right-angled triangles. Complete the following table.



Sudut Angle	30°	60°	45°
Sin θ	1/2		1/ $\sqrt{2}$
Kos θ		1/2	1/ $\sqrt{2}$
Tan θ	1/ $\sqrt{3}$	$\sqrt{3}$	1

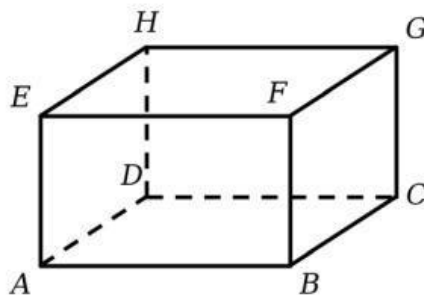
[2 markah / marks]

23. Tandakan (✓) bagi tangen sepunya.
Mark (✓) for the common tangent.

i)		
ii)		
iii)		
iv)		

[2 markah / marks]

24. Rajah menunjukkan sebuah kuboid ABCDEFGH. Nyatakan garis normal bagi satah berikut.
The diagram shows a cuboid ABCDEFGH. State the normal line to the following planes.



Satah Plane	Normal Normal
ABFE	AE / AC / BC / EF
BCGF	AB / BC / CG / BD
EFGH	EF / FG / EG / CG

[3 markah / marks]

25. (a) Tentukan lokus bagi setiap objek yang bergerak. Isi petak kosong dengan huruf yang betul.

Determine the locus of each moving object. Fill in the box with the correct letter.

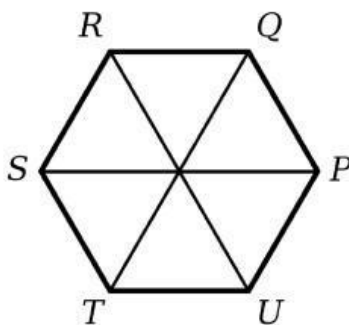
P : Satu garis lurus condong *A sloping straight line*
Q : Satu bulatan *A circle*
R : Satu garis lurus mencancang *A vertical straight line*

- (i) Sebuah kereta kabel yang bergerak dari kaki bukit ke puncak bukit melalui kabel yang condong. []
A cable car moving from the foot of a hill to the top of the hill along a sloping cable.
- (ii) Hujung jarum minit sebuah jam dinding yang sedang bergerak. []
The tip of the minute hand of a moving wall clock.

[2 markah / marks]

- (b) Rajah menunjukkan sebuah heksagon sekata PQRSTU. Menggunakan huruf dalam rajah itu, lengkapkan jadual di bawah.

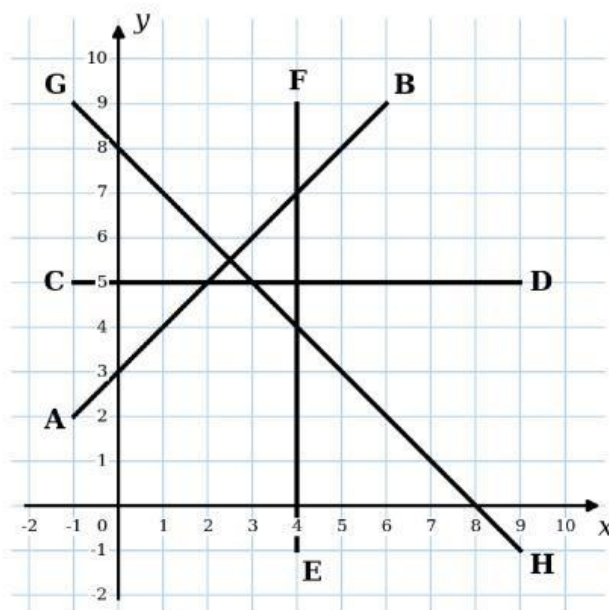
Diagram shows a regular hexagon PQRSTU. Using the letters in the diagram, complete the table below.



	Huraian <i>Description</i>	Lokus <i>Locus</i>
(i)	Satu titik yang bergerak dengan keadaan jaraknya sentiasa sama dari titik P dan titik R. <i>A point which moves such that its distance is always the same from point P and point R.</i>	
(ii)	Satu titik yang bergerak dengan keadaan jaraknya sentiasa sama dari garis QR dan garis TU. <i>A point which moves such that its distance is always the same from line QR and line TU.</i>	

[2 markah / marks]

26. Padankan persamaan bagi garis lurus di bawah.
Match the equation of each straight line below.



GARIS LURUS Straight lines	PERSAMAAN Equation
(i) AB	$y = -x + 8$
(ii) CD	$x = 4$
(iii) EF	$y = x + 3$
(iv) GH	$y = 5$

[4 markah / marks]