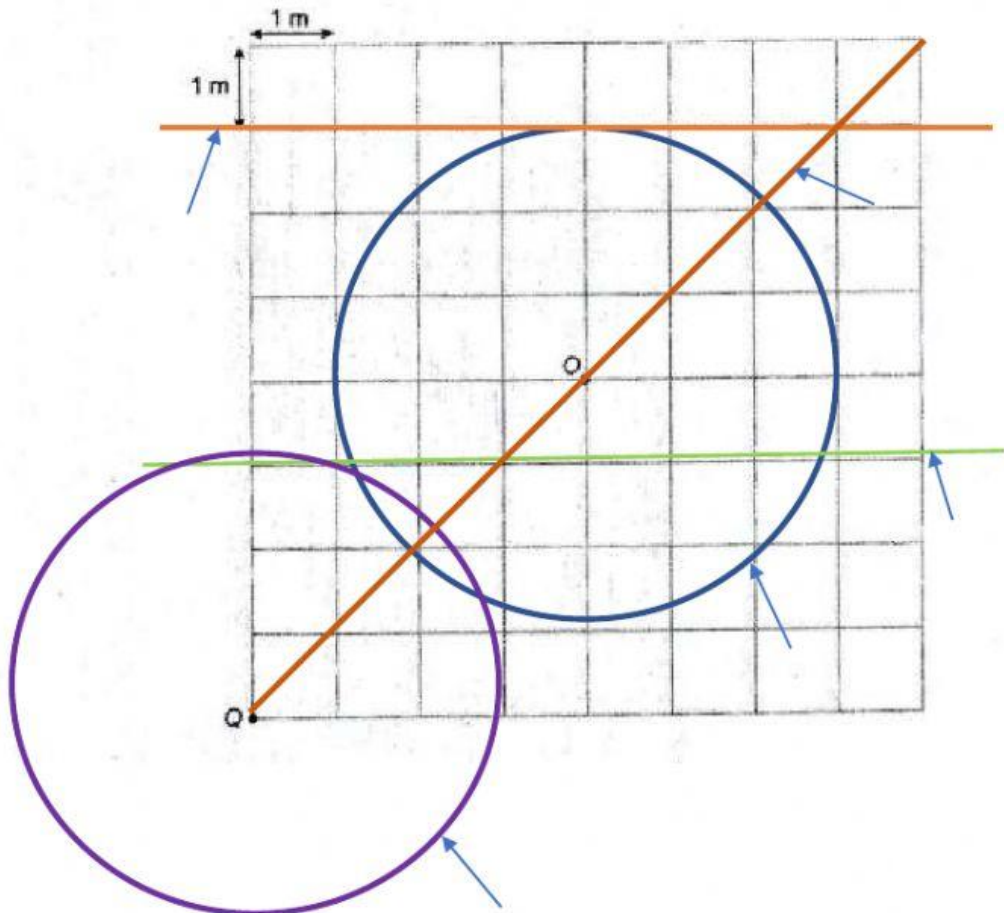


Exercise

Q1. A goat is tied to a tree, O with a rope with length 3m. A farmer tied a fierce dog in from of his house at Q, also with the rope length 3m. Type locus P for movement of goat and Q for the locus for movement of dog. And type not locus for unnecessary line. Drag the symbol $\otimes$ below to where the dog and goat will meet.

Drag this symbol to the diagram : $\otimes$ $\otimes$

Jawapan/Answer:



1.

2.

Rajah di ruang jawapan menunjukkan sebuah segi empat sama $PQRS$. K , L , M dan N masing-masing ialah titik-titik tengah PQ , QR , RS dan SP . W , X dan Y ialah tiga titik yang bergerak dalam rajah itu.

The diagram in the answer space shows a square $PQRS$. K , L , M and N are the midpoints of PQ , QR , RS and SP respectively. W , X and Y are three moving points in the diagram.

- (i) W bergerak dengan keadaan jaraknya dari garis lurus PQ dan PS adalah sama. Dengan menggunakan huruf pada rajah itu, nyatakan lokus W itu.

W moves such that it is equidistant from the straight lines PQ and PS . By using the letters in the diagram, state the locus of W .

- ii) In the diagram, label

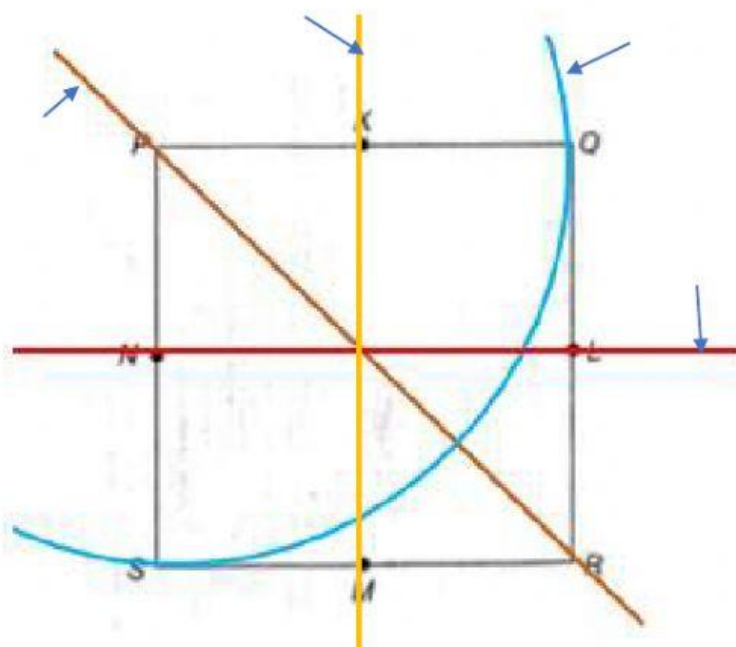
- locus X such that $XP = PQ$
- locus of Y such that its distance from point N and point L are the same
label NOT LOCUS for unnecessary line

- iii) drag the symbol $\otimes$ the intersection of locus X and Y

answer :

- (i)

- (ii),(iii) drag this symbol to diagram - $\otimes$



3.

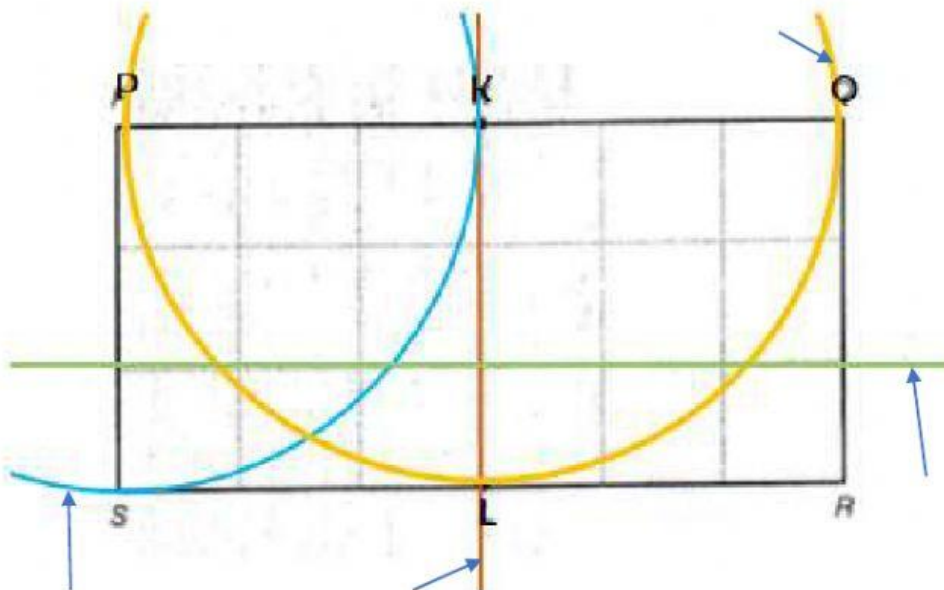
Rajah di ruang jawapan menunjukkan sebuah segi empat tepat $PQRS$ yang dilukis pada grid segi empat sama bersisi 1 unit. X dan Y ialah dua titik yang bergerak di dalam rajah itu.

The diagram in the answer space shows a rectangle $PQRS$ drawn on a grid of equal squares of sides 1 unit. X and Y are two points moving in the diagram.

- i) In the diagram, label
 - a) The locus of X such that $XK = PK$,
 - b) Locus of Y such that its distance from the line SR is 1 unit
- ii) drag the symbol $\otimes$ the intersection of locus X and Y

Jawapan / answer :

drag this symbol to diagram - $\otimes$ $\otimes$



4.

Rajah dalam ruang jawapan menunjukkan sebuah segi empat tepat $KLMN$ yang dilukis pada grid sisi empat sama bersisi 1 unit. P dan Q ialah dua titik yang bergerak di dalam segi empat tepat $KLMN$.

The diagram in the answer space shows a rectangle $KLMN$ drawn on a grid of equal squares with sides of 1 unit. P and Q are two moving points in the rectangle $KLMN$.

On the diagram, label

- Locus of point P such that $PH = 4$ unit
- Locus of point Q such that it is always equidistant from the straight lines KL and MN
- Hence, drag the symbol $\otimes$ the intersection of the locus P and locus of Q

Answer :

label NOT LOCUS for unnecessary line

Drag this symbol $\otimes$ $\otimes$

