Ujian 14 UASA

BAB 11

Tarikh : _____

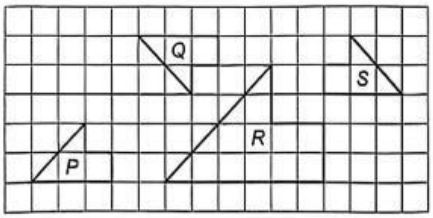
Transformasi Isometri

Isometric Transformations

Skor /27

Bahagian A

1. Rajah di bawah menunjukkan empat pentagon yang dilukis pada grid segi empat sama.
The diagram below shows four pentagons drawn on a square grid.

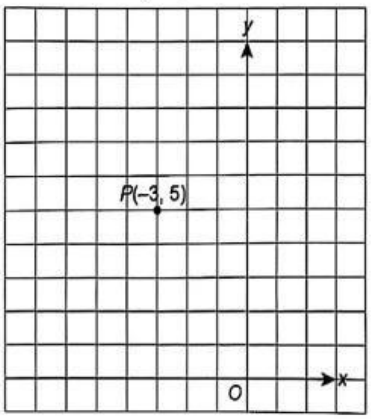


Semua pentagon adalah kongruen **kecuali**
All pentagons are congruent ***except***

SK 11.1 TP 2

A *P* **C** *R*
B *Q* **D** *S*

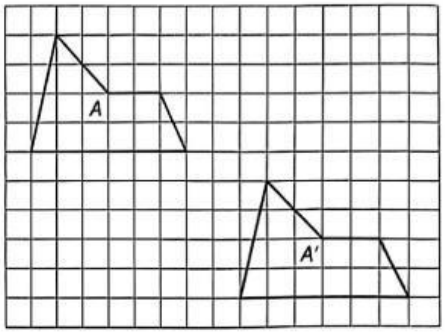
2. Dalam rajah di bawah, P' ialah imej bagi P di bawah translasi $\begin{pmatrix} 4 \\ -4 \end{pmatrix}$.
In the diagram below, P' is the image of P under translation $\begin{pmatrix} 4 \\ -4 \end{pmatrix}$.



Tentukan koordinat bagi P'. SK 11.2 TP 3
Determine the coordinates of P'.

A (−7, 1) **C** (−7, 9)
B (1, 1) **D** (1, 9)

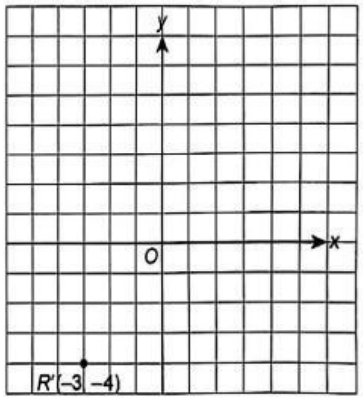
3. Rajah di bawah menunjukkan A' ialah imej bagi A di bawah suatu translasi.
The diagram below shows A' is the image of A under a translation.



Nyatakan translasi itu. SK 11.2 TP 3
State the translation.

A $\begin{pmatrix} 8 \\ -5 \end{pmatrix}$ **C** $\begin{pmatrix} -8 \\ 5 \end{pmatrix}$
B $\begin{pmatrix} -5 \\ 8 \end{pmatrix}$ **D** $\begin{pmatrix} 5 \\ -8 \end{pmatrix}$

4. Dalam rajah di bawah, R' ialah imej bagi R di bawah translasi $\begin{pmatrix} -7 \\ -10 \end{pmatrix}$.
In the diagram below, R' is the image of R under translation $\begin{pmatrix} -7 \\ -10 \end{pmatrix}$.



Tentukan koordinat bagi R. SK 11.2 TP 3
Determine the coordinates of R.

A (−10, −14) **C** (−10, 6)
B (4, −14) **D** (4, 6)

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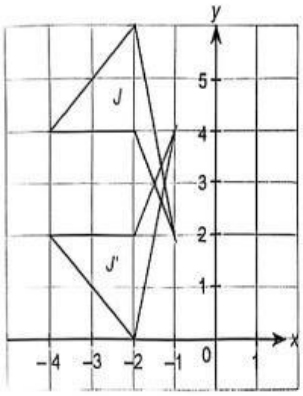
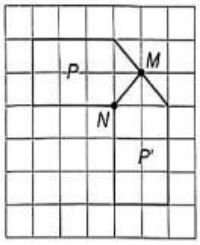
5. Tentukan paksi pantulan bagi objek dan imej dalam rajah berikut. SK 11.3 TP2
Determine the axis of reflection of the object and image in the diagram below.



A $x = 3$
B $y = 3$
C paksi-x / *x-axis*
D paksi-y / *y-axis*

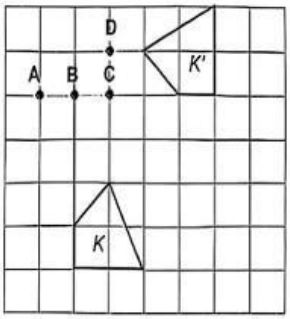
6. Dalam rajah di bawah, P' ialah imej bagi P di bawah suatu transformasi.
In the diagram below, P' is the image of P under a transformation.



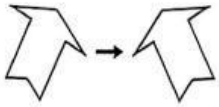
Tentukan transformasi tersebut.
Determine the transformation. SK 11.4 TP2

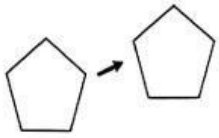
A Pantulan pada garis MN yang dipanjangkan.
Reflection in the extended line MN.
B Putaran 180° pada titik M.
Rotation of 180° at point M.
C Putaran 90° lawan arah jam pada titik N.
Rotation of 90° anticlockwise at point N.
D Putaran 90° ikut arah jam pada titik N.
Rotation of 90° clockwise at point N.

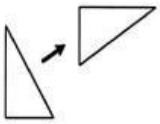
7. Antara berikut, yang manakah pusat bagi putaran objek K? SK 11.4 TP2
Which of the following is the centre of rotation of object K?

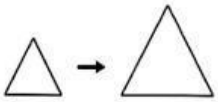


8. Antara berikut, yang manakah tidak menunjukkan transformasi isometri?
Which of the following does not shows an isometric transformation? SK 11.5 TP1

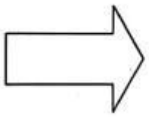
A


B


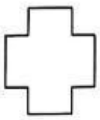
C


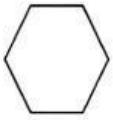
D


9. Antara berikut, yang manakah tidak mempunyai simetri putaran?
Which of the following does not has rotational symmetry? SK 11.6 TP1

A


C

B


D


Ujian 14

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