

Answers: Routine Transformations Practice Test

Describe the transformations shown. (In every case the dotted is the image, the solid is the original.)

Mark on all mirror lines, centres of rotation, lines of enlargement etc.

Vector

$\begin{pmatrix} 3 \\ 1 \end{pmatrix}$

Reflection or Rotation 90° clockwise

Reflection

Enlargement
Scale factor = 2
from dot

Rotation
90° anti-clockwise

Vector

$\begin{pmatrix} -5 \\ 1 \end{pmatrix}$

Enlargement on dot

Scale factor = 0.5 or 1/2

Rotation
180° about dot

Describe these transformations.

Rotation
90° anti-clockwise

Reflection

Vector translation

$\begin{pmatrix} 4 \\ 0 \end{pmatrix}$

Which transformation is which?.

Enlargement = black

Reflection = green

Translation = blue

Rotation = red

Enlargement, Scale = 2

Describe as many transformations as you can that map the solid square onto the dotted square.

Reflection Rotation 180° (and two of 90°)

Vector translation

$\begin{pmatrix} 4 \\ 0 \end{pmatrix}$

Describe as many transformations as you can that map the solid parallelogram onto the dotted one.

Reflection Rotation 180°

Vector translation

$\begin{pmatrix} 3 \\ 2 \end{pmatrix}$

Which two transformation would you use to get this image?

Reflection and $\begin{pmatrix} 0 \\ -4 \end{pmatrix}$ (or vice versa)
OR rotate 180° on dot then reflect horizontally

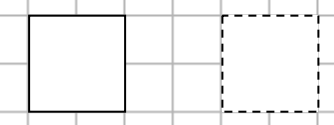
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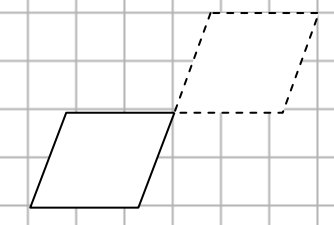
Mark on all mirror lines, centres of rotation, lines of enlargement etc.

Describe these transformations.

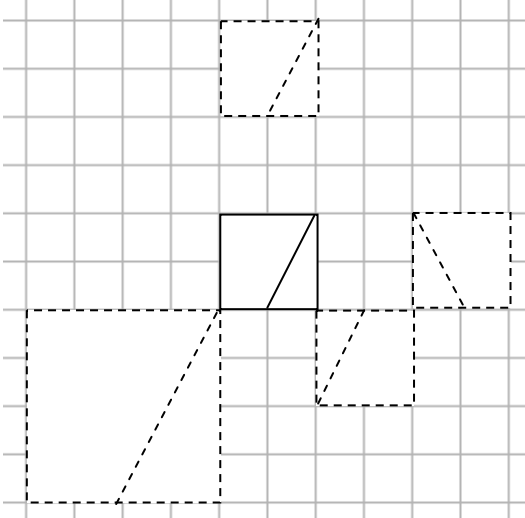
Describe as many transformations as you can that map the solid square onto the dotted square.



Describe as many transformations as you can that map the solid parallelogram onto the dotted one.



Which transformation is which?



Which two transformations would you use to get this image?

