

## Combining Transformations

### Notes

Questions can be asked with successive transformations. It is always important to check your answer to each part before moving to the next transformation. An error at the start will compound through the question.

- E.g. 1**
- (a) Draw an  $x$ -axis from  $-6$  to  $6$  and a  $y$ -axis from  $-6$  to  $6$ .
  - (b) Draw a triangle A with vertices  $(-6, 2)$ ,  $(-3, 2)$  and  $(-3, 1)$ .
  - (c) Reflect triangle A in the line  $y = -x$ . Label the image B.
  - (d) Rotate triangle B  $90^\circ$  clockwise about  $(0, 2)$ . Label the image C.
  - (e) Enlarge triangle C by a scale factor of  $-2$  about  $(2, 1)$ . Label the image D.
  - (f) Translate triangle D by vector  $\begin{pmatrix} -4 \\ 3 \end{pmatrix}$ . Label the image E.

**Video:** [Combining transformations 1](#)  
**Video:** [Combining transformations 2](#)

[Solutions to Starter and E.g.s](#)

### Exercise

9-1 class textbook:	p290 E9.2 Qu 1-6
A*-G class textbook:	p252 E9.2 Qu 1-8
9-1 homework book:	p100 E9.2 Qu 1-3
A*-G homework book:	p72 E9.2 Qu 1-3

### Summary

Check your answer to each part before moving to the next transformation.

[Homework book answers \(only available during a lockdown\)](#)