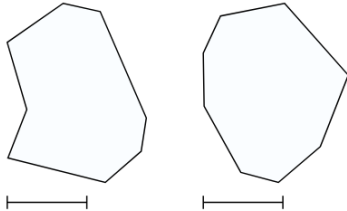




Use transformations to establish congruence and similarity

1

Are these shapes similar?

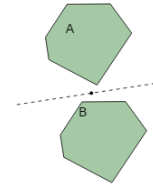


A Yes

B No

2

Identify the transformation that changes shape A into shape B



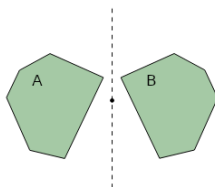
A Translation

B Reflection

C Rotation

3

Is the transformation of shape A into shape B a Dilation?



A Dilation

B Not a Dilation

4

(2,0)

A

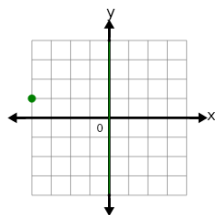
(-2,0)

B

(0,0)

5

Reflect this point across the Y axis

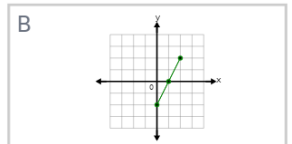
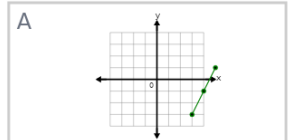
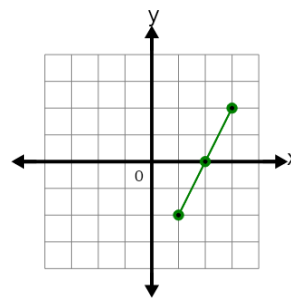


A (-1,4)

B (4,1)

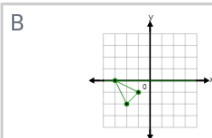
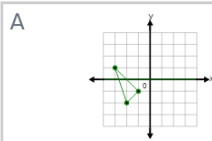
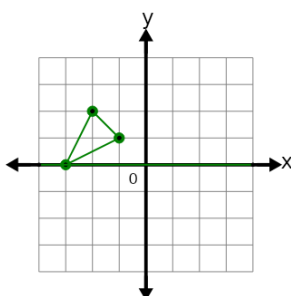
6

Translate this shape by (2,-1)



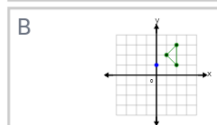
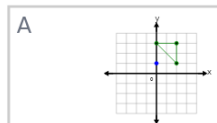
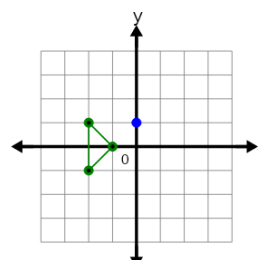
7

Reflect this shape across the X axis



8

Rotate this shape by 180° counter-clockwise about point (0,1)

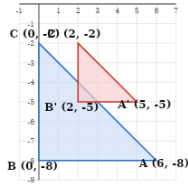




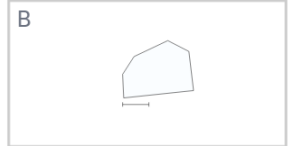
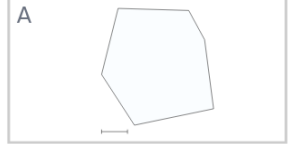
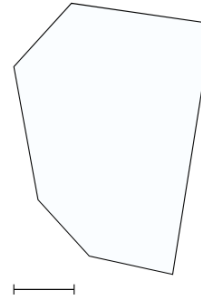
Use transformations to establish congruence and similarity

9

Is the dilation from triangle ABC to triangle A'B'C' a reduction or an enlargement?

**A** Reduction**B** Enlargement**10**

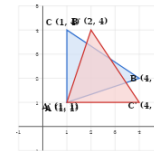
Which image is similar to this shape?

**11**

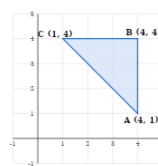
One or more angles are different

A neither similar nor congruent**B** congruent**12**

The triangle ABC (blue) is transformed onto triangle A'B'C' (red) by two transformations applied in sequence. Which pair of transformations was used?

**A** Reflect across the y-axis, then rotate 90° counter-clockwise about the origin**B** Rotate 90° counter-clockwise about the origin, then reflect across the y-axis**C** Rotate 90° counter-clockwise about the origin, then reflect across the y-axis**D** Rotate 180° about the origin, then reflect across the y-axis**13**

The triangle ABC is transformed by two transformations in sequence: (1) dilate by a scale factor of 2 about the origin; then (2) translate 2 units left and 3 units up. Is the final image congruent or similar to triangle ABC?

**A** Similar**B** Congruent