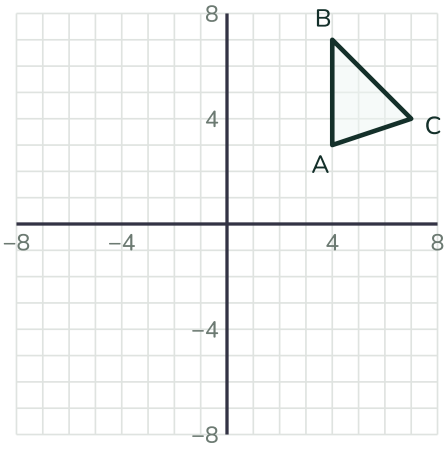
Transformations · Grade 8 · 1

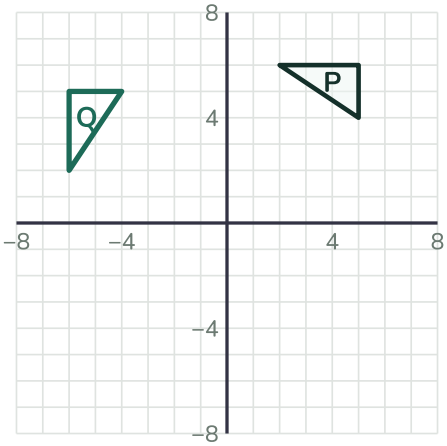
Name _____ Date _____ Score _____ / 3

01 Rotate triangle ABC 180° clockwise about the origin.



a) Draw the image.

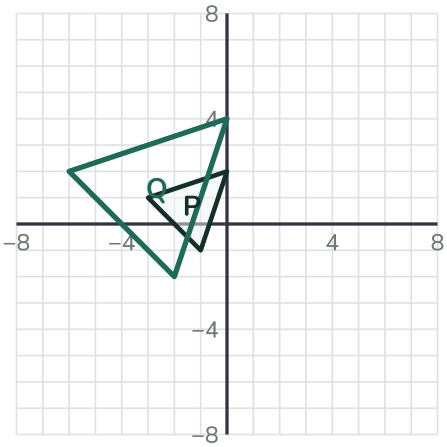
b) Write A', B' and C'. _____



02 Shape Q is the image of shape P after one move. Is Q congruent to P, or similar but not congruent? Explain. _____

Transformations · Grade 8 · 2

Name _____ Date _____ Score _____ / 2



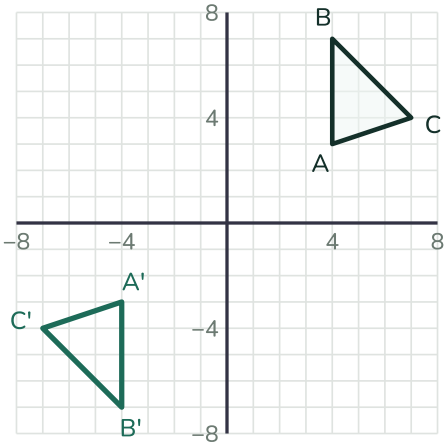
01 Shape Q is the image of shape P after one move. Is Q congruent to P, or similar but not congruent? Explain.

02

Triangle ABC has A(4, 0), B(4, 4) and C(7, 1). Apply (x, y) → (−x, y). Write A', B' and C'.

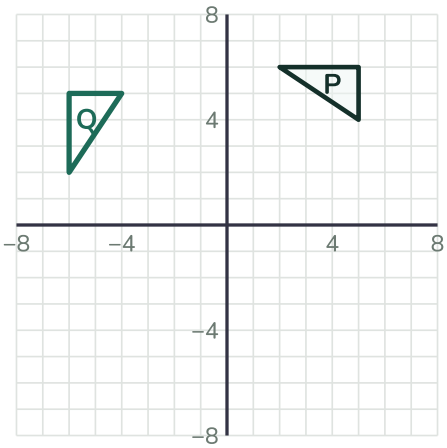
Transformations · Grade 8 · 1 (Answer Key)

01 Rotate triangle ABC 180° clockwise about the origin.



a) Draw the image. **See the drawing.**

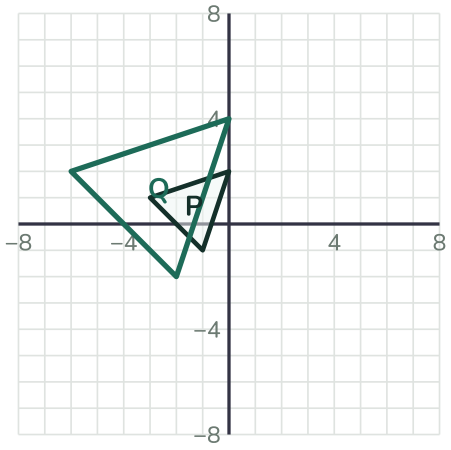
b) Write A', B' and C'. **A'(−4, −3), B'(−4, −7), C'(−7, −4)**



02 Shape Q is the image of shape P after one move. Is Q congruent to P, or similar but not congruent? Explain.

Congruent: a rotation keeps every length and angle the same.

Transformations · Grade 8 · 2 (Answer Key)



01 Shape Q is the image of shape P after one move. Is Q congruent to P, or similar but not congruent? Explain.

Similar, not congruent: the dilation by 2 changed every side length but kept the angles the same.

02

Triangle ABC has A(4, 0), B(4, 4) and C(7, 1). Apply $(x, y) \to (-x, y)$. Write A', B' and C'.

A'(−4, 0), B'(−4, 4), C'(−7, 1)