

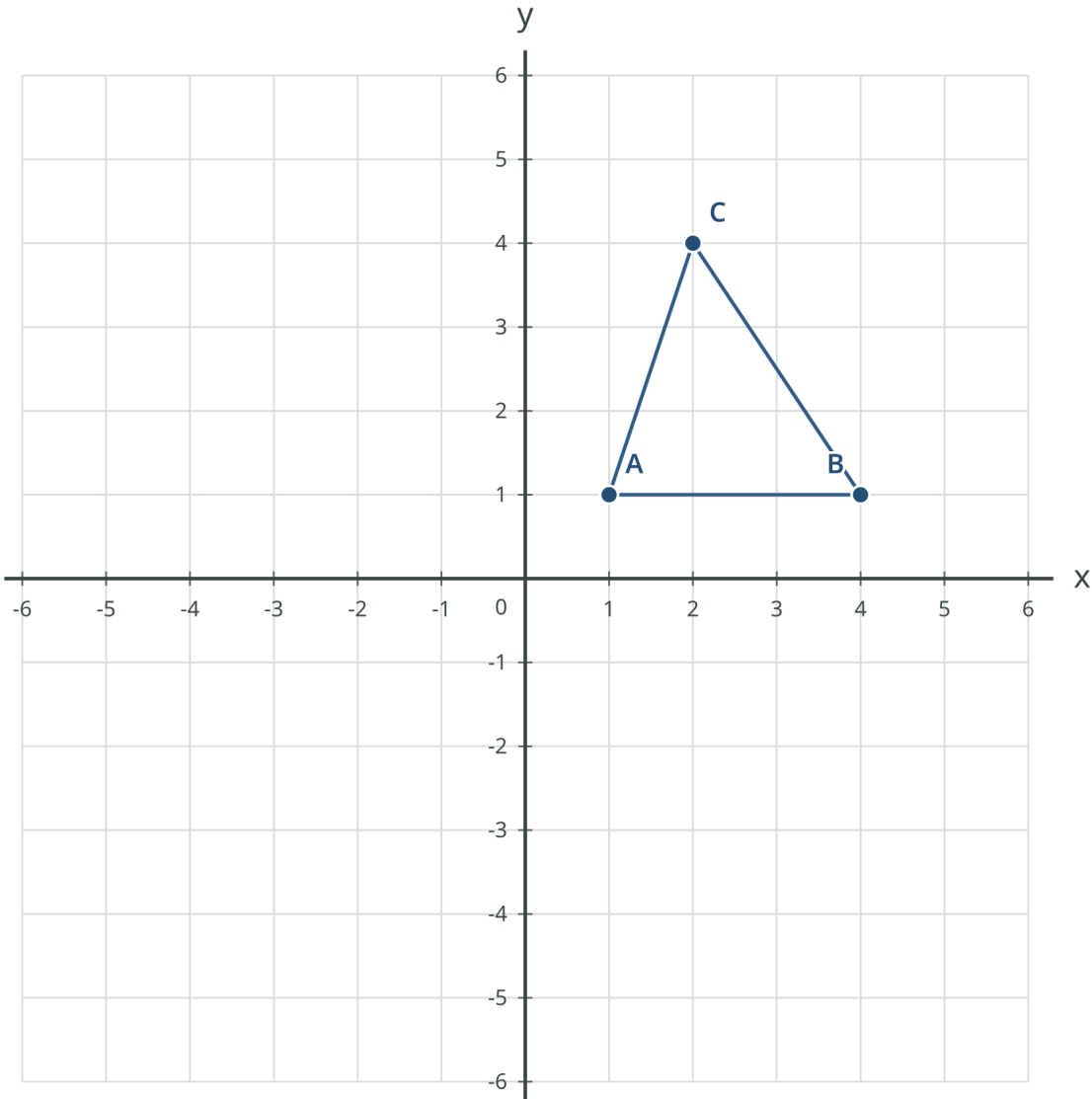
# Geometry transformation calculator

Name: \_\_\_\_\_ Date: \_\_\_\_\_

$(x, y) \rightarrow (x + (-5), y + (-2))$

A (1, 1); B (4, 1); C (2, 4)

Original shape · Draw the transformed image



Draw and label the image of each vertex. Join in the original order.  
Does this transformation preserve side lengths?

---

---

---

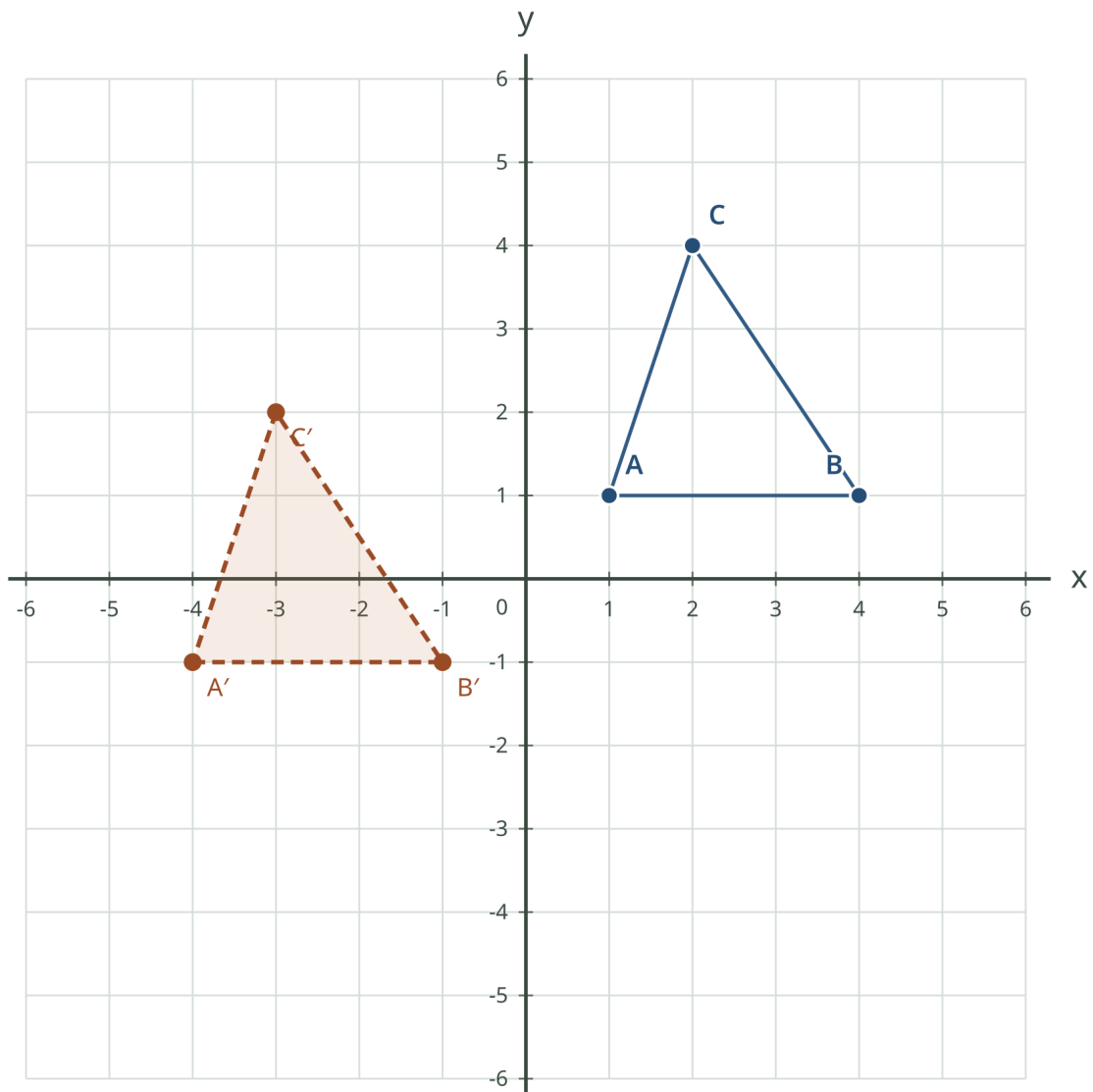
# Geometry transformation calculator

ANSWER KEY

$$(x, y) \rightarrow (x + (-5), y + (-2))$$

A (1, 1); B (4, 1); C (2, 4)

Original: solid blue · Image: dashed orange



A' (-4, -1)

B' (-1, -1)

C' (-3, 2)

Side lengths and angle measures are preserved.