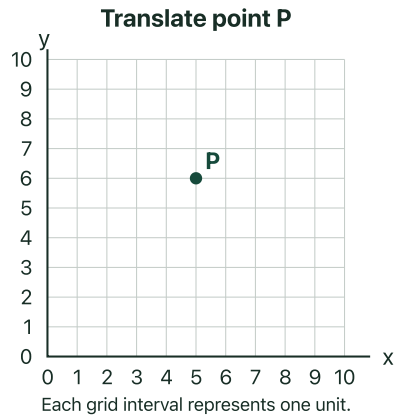


Translations, Reflections and Rotations

Name: _____ Date: _____

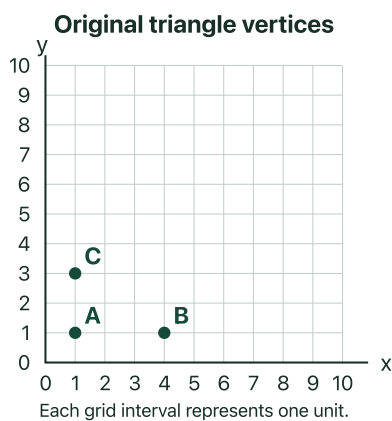
Show your calculations, diagrams and explanations. Start with questions 1–2, then build toward the final challenge.

Public practice with published answers. This is not a full-topic readiness assessment.

1. Translate $P(5, 6)$ by 3 units left and 2 units down. Plot the image.

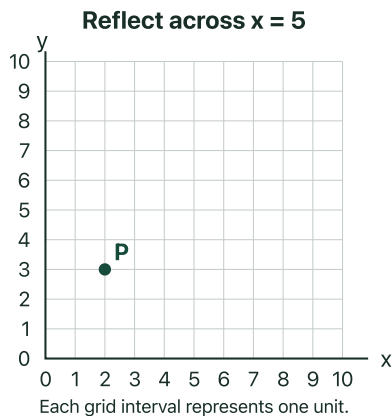
Show your work:

2. Triangle A(1, 1), B(4, 1), C(1, 3) moves 2 units right and 3 units up. Find all image vertices and check AB and A'B'.



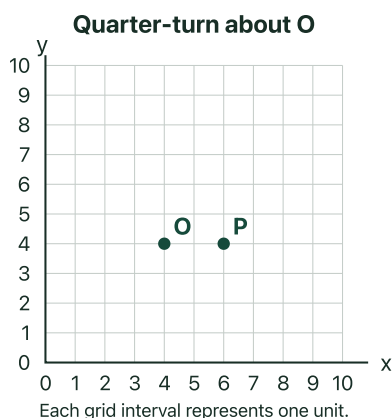
Show your work:

3. Reflect P(2, 3) across the vertical line $x = 5$. Draw the mirror line and find P'.



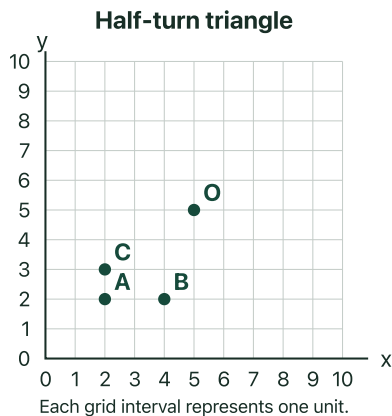
Show your work:

4. Rotate $P(6, 4)$ 90° counterclockwise about $O(4, 4)$. Find P' and show the radius before and after the turn.



Show your work:

5. Rotate triangle $A(2, 2)$, $B(4, 2)$, $C(2, 3)$ by 180° about $O(5, 5)$. Find the image vertices.



Show your work:

6. Start with $P(1, 2)$. First translate 2 units right, then reflect across $x = 5$. Compare that result with doing the reflection first and the translation second. Do the two orders agree?



Show your work: