

Mixed Review (Two-Step)

Name: _____ Date: _____

Do the first transformation, then apply the second one to that result. Graph only the final image.

1. Translate 2 units down, then reflect over the line $y = x$.

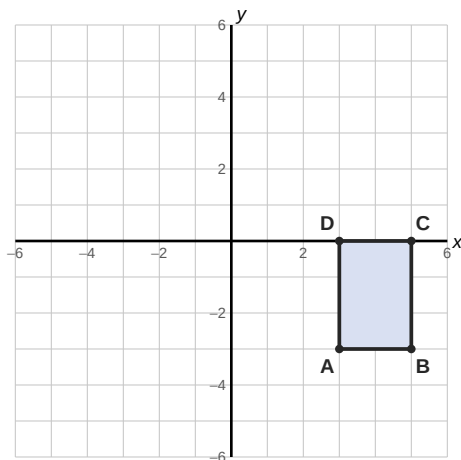


Image coordinates:

A' (,)

B' (,)

C' (,)

D' (,)

Original:

A (3, -3)

B (5, -3)

C (5, 0)

D (3, 0)

2. Reflect over the y -axis, then rotate 90° clockwise about the origin.

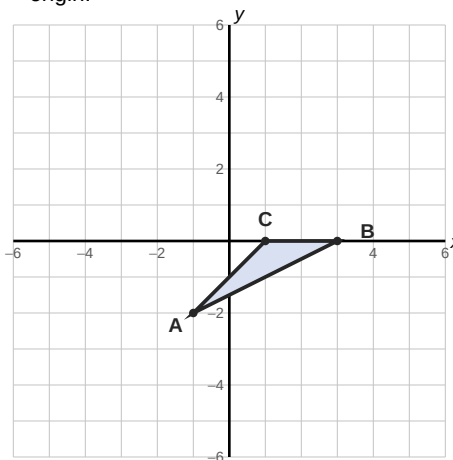


Image coordinates:

A' (,)

B' (,)

C' (,)

Original:

A (-1, -2)

B (3, 0)

C (1, 0)

3. Rotate 90° counterclockwise about the origin, then translate 1 unit right and 3 units down.

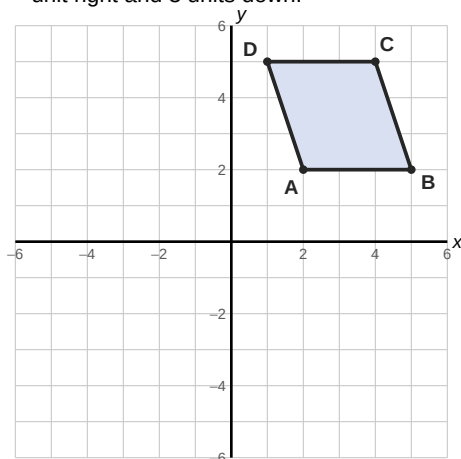


Image coordinates:

A' (,)

B' (,)

C' (,)

D' (,)

Original:

A (2, 2)

B (5, 2)

C (4, 5)

D (1, 5)

4. Translate 2 units left and 1 unit up, then reflect over the x -axis.

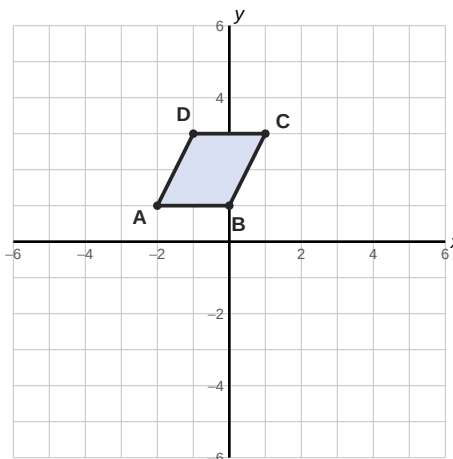


Image coordinates:

A' (,)

B' (,)

C' (,)

D' (,)

Original:

A (-2, 1)

B (0, 1)

C (1, 3)

D (-1, 3)

5. Reflect over the line $y = x$, then rotate 180° about the origin.

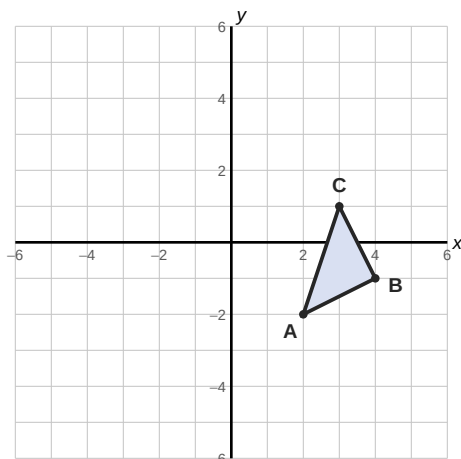


Image coordinates:

A' (,)

B' (,)

C' (,)

Original:

A (2, -2)

B (4, -1)

C (3, 1)

6. Rotate 90° counterclockwise about the origin, then translate 3 units right.

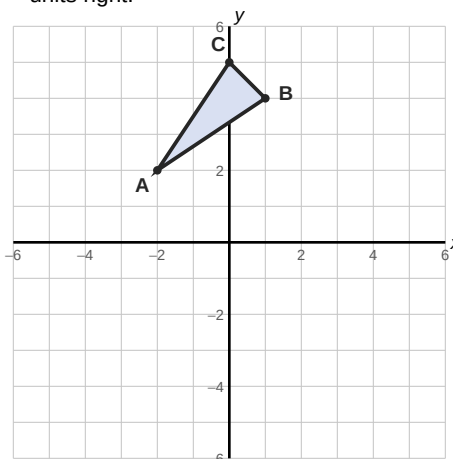


Image coordinates:

A' (,)

B' (,)

C' (,)

Original:

A (-2, 2)

B (1, 4)

C (0, 5)