

Mixed Review (Two-Step) — ANSWER KEY

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

1. Translate 3 units right, then reflect over the x-axis.

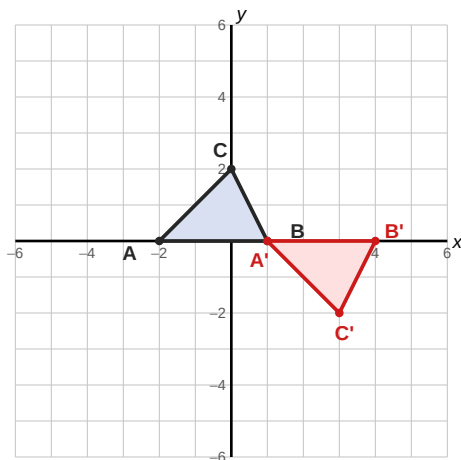


Image coordinates:

A' (1, 0)

B' (4, 0)

C' (3, -2)

Original:
A (-2, 0)
B (1, 0)
C (0, 2)

2. Reflect over the line $y = -x$, then rotate 90° clockwise about the origin.

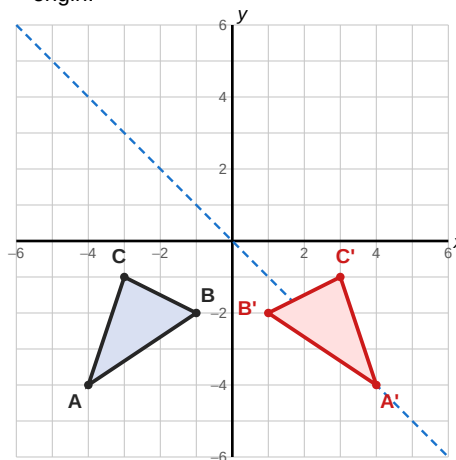


Image coordinates:

A' (4, -4)

B' (1, -2)

C' (3, -1)

Original:
A (-4, -4)
B (-1, -2)
C (-3, -1)

3. Rotate 90° clockwise about the origin, then translate 2 units right and 2 units up.

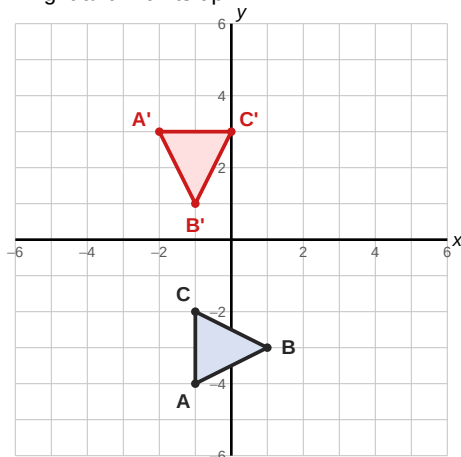


Image coordinates:

A' (-2, 3)

B' (-1, 1)

C' (0, 3)

Original:
A (-1, -4)
B (1, -3)
C (-1, -2)

4. Translate 3 units left and 1 unit down, then reflect over the y-axis.

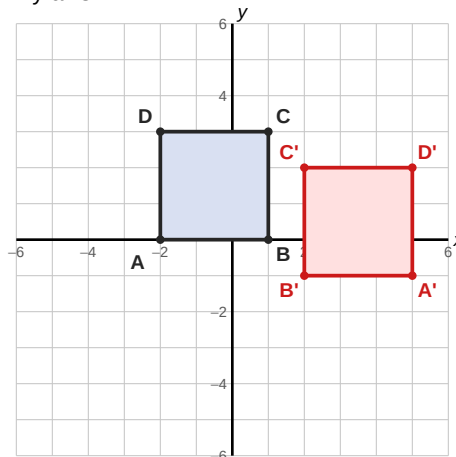


Image coordinates:

A' (5, -1)

B' (2, -1)

C' (2, 2)

D' (5, 2)

Original:
A (-2, 0)
B (1, 0)
C (1, 3)
D (-2, 3)

5. Reflect over the line $y = x$, then rotate 270° counterclockwise about the origin.

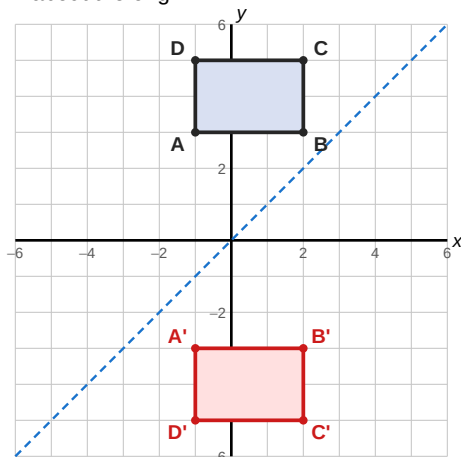


Image coordinates:

A' (-1, -3)

B' (2, -3)

C' (2, -5)

D' (-1, -5)

Original:
A (-1, 3)
B (2, 3)
C (2, 5)
D (-1, 5)

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

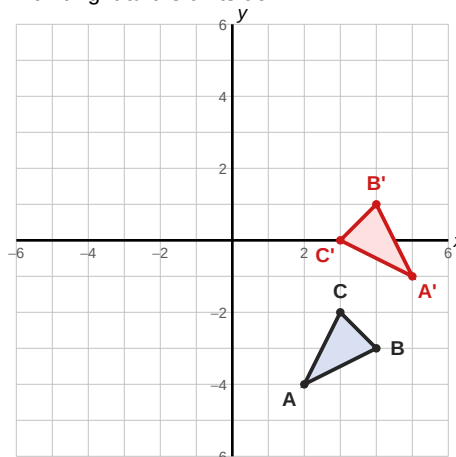


Image coordinates:

A' (5, -1)

B' (4, 1)

C' (3, 0)

Original:
A (2, -4)
B (4, -3)
C (3, -2)