

Rotations (Part 1) — ANSWER KEY

Turn the figure about the origin (0, 0). Tip: trace the figure, put your pencil on the origin, and turn the paper.

1. Rotate the figure 90° counterclockwise about the origin.

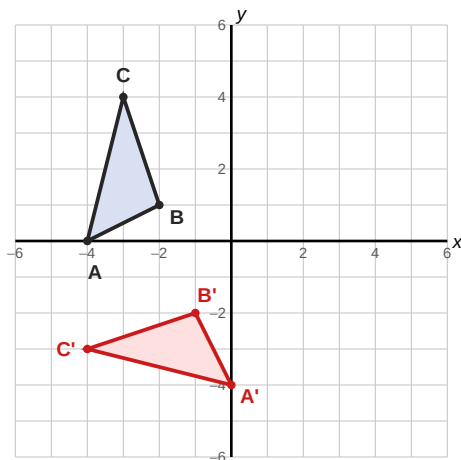


Image coordinates:

A' (0, -4)

B' (-1, -2)

C' (-4, -3)

Original:

A (-4, 0)

B (-2, 1)

C (-3, 4)

2. Rotate the figure 90° clockwise about the origin.

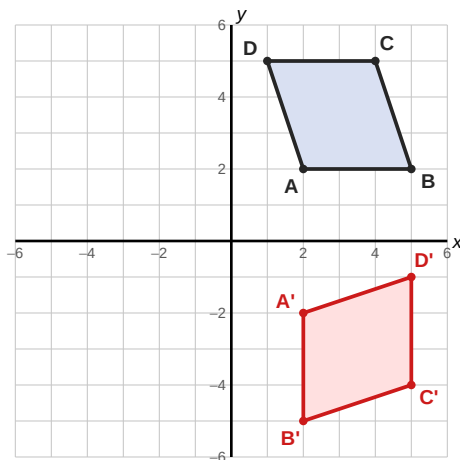


Image coordinates:

A' (2, -2)

B' (2, -5)

C' (5, -4)

D' (5, -1)

Original:

A (2, 2)

B (5, 2)

C (4, 5)

D (1, 5)

3. Rotate the figure 180° about the origin.

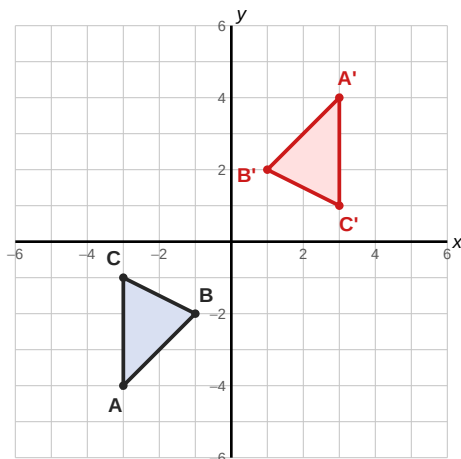


Image coordinates:

A' (3, 4)

B' (1, 2)

C' (3, 1)

Original:

A (-3, -4)

B (-1, -2)

C (-3, -1)

4. Rotate the figure 270° counterclockwise about the origin.

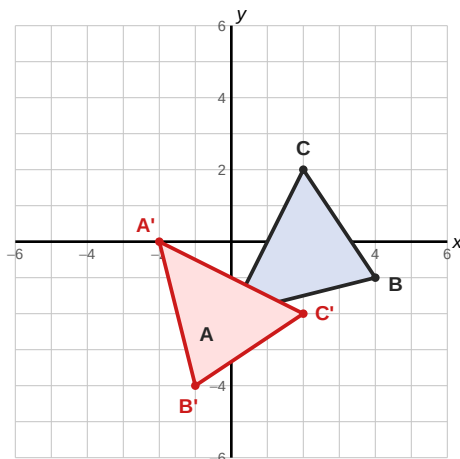


Image coordinates:

A' (-2, 0)

B' (-1, -4)

C' (2, -2)

Original:

A (0, -2)

B (4, -1)

C (2, 2)

5. Rotate the figure 90° counterclockwise about the origin.

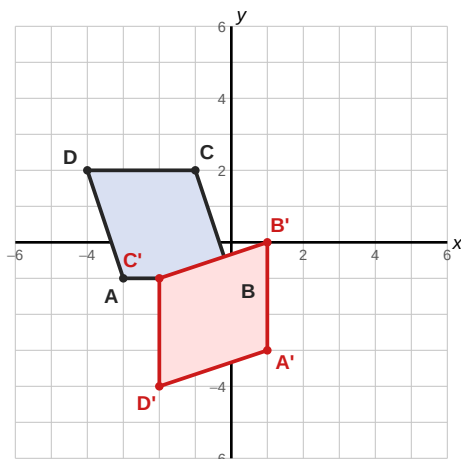


Image coordinates:

A' (1, -3)

B' (1, 0)

C' (-2, -1)

D' (-2, -4)

Original:

A (-3, -1)

B (0, -1)

C (-1, 2)

D (-4, 2)

6. Rotate the figure 90° clockwise about the origin.

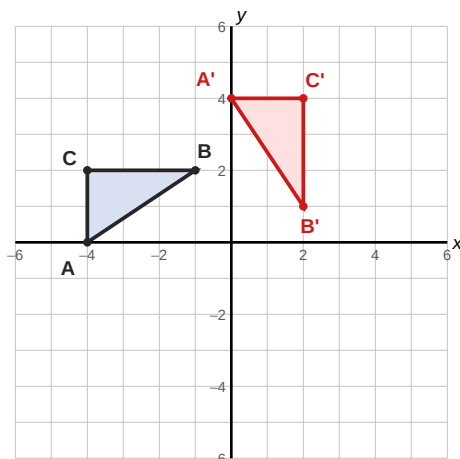


Image coordinates:

A' (0, 4)

B' (2, 1)

C' (2, 4)

Original:

A (-4, 0)

B (-1, 2)

C (-4, 2)

Rotations (Part 2) — ANSWER KEY

Turn the figure about the origin (0, 0). Tip: trace the figure, put your pencil on the origin, and turn the paper.

7. Rotate the figure 180° about the origin.

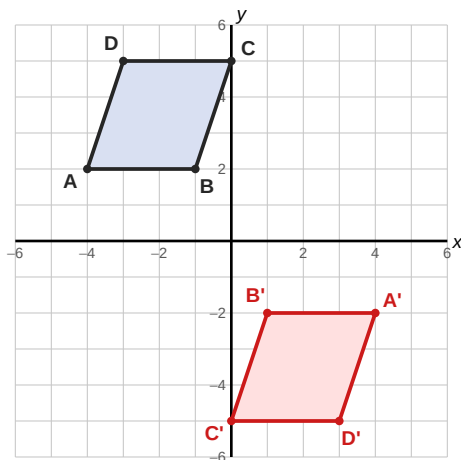


Image coordinates:

A' (4, -2)

B' (1, -2)

C' (0, -5)

D' (3, -5)

Original:

A (-4, 2)

B (-1, 2)

C (0, 5)

D (-3, 5)

8. Rotate the figure 270° counterclockwise about the origin.

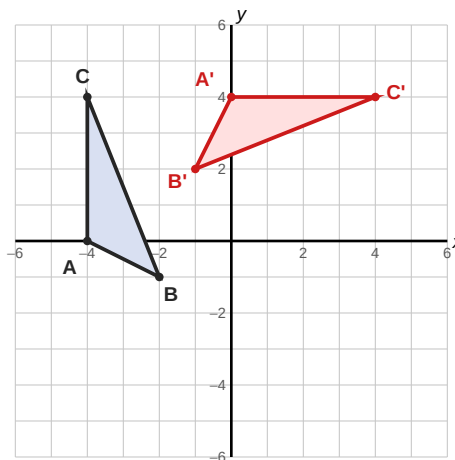


Image coordinates:

A' (0, 4)

B' (-1, 2)

C' (4, 4)

Original:

A (-4, 0)

B (-2, -1)

C (-4, 4)

9. Rotate the figure 90° counterclockwise about the origin.

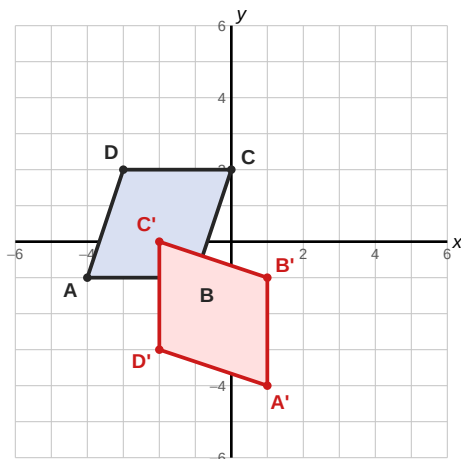


Image coordinates:

A' (1, -4)

B' (1, -1)

C' (-2, 0)

D' (-2, -3)

Original:

A (-4, -1)

B (-1, -1)

C (0, 2)

D (-3, 2)

10. Rotate the figure 90° clockwise about the origin.

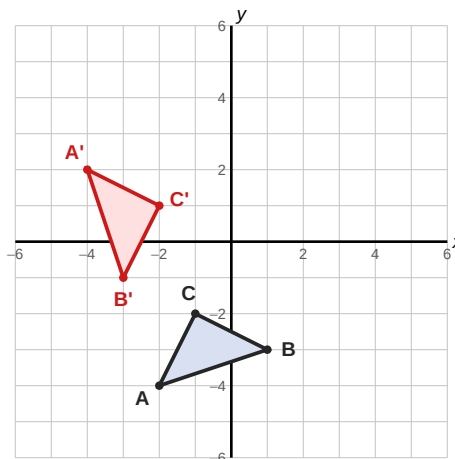


Image coordinates:

A' (-4, 2)

B' (-3, -1)

C' (-2, 1)

Original:

A (-2, -4)

B (1, -3)

C (-1, -2)

11. Rotate the figure 180° about the origin.

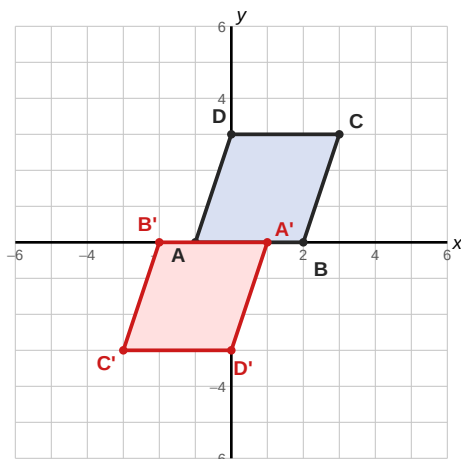


Image coordinates:

A' (1, 0)

B' (-2, 0)

C' (-3, -3)

D' (0, -3)

Original:

A (-1, 0)

B (2, 0)

C (3, 3)

D (0, 3)

12. Rotate the figure 270° counterclockwise about the origin.

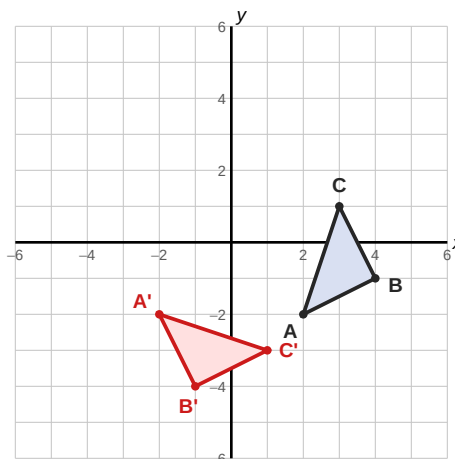


Image coordinates:

A' (-2, -2)

B' (-1, -4)

C' (1, -3)

Original:

A (2, -2)

B (4, -1)

C (3, 1)