

Reflections (Part 1) — ANSWER KEY

Flip the figure over the given line. Each image point is the same distance from the line as the original.

1. Reflect the figure over the x-axis.

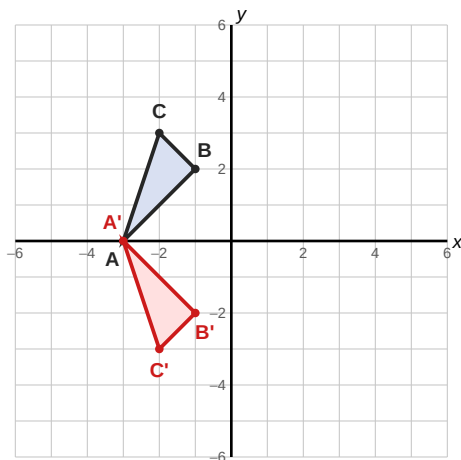


Image coordinates:

A' **(-3, 0)**

B' **(-1, -2)**

C' **(-2, -3)**

Original:

A (-3, 0)

B (-1, 2)

C (-2, 3)

2. Reflect the figure over the y-axis.

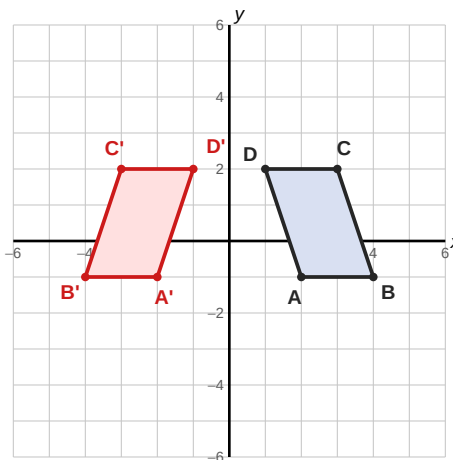


Image coordinates:

A' **(-2, -1)**

B' **(-4, -1)**

C' **(-3, 2)**

D' **(-1, 2)**

Original:

A (2, -1)

B (4, -1)

C (3, 2)

D (1, 2)

3. Reflect the figure over the line $y = x$.

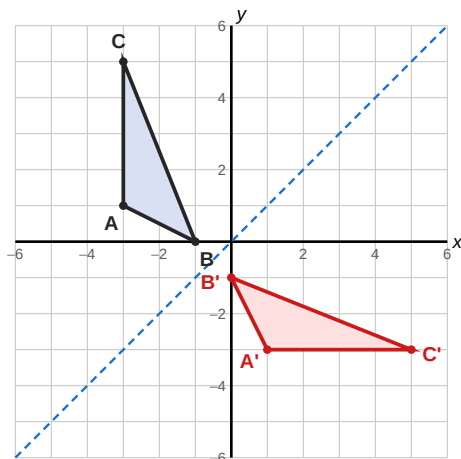


Image coordinates:

A' **(1, -3)**

B' **(0, -1)**

C' **(5, -3)**

Original:

A (-3, 1)

B (-1, 0)

C (-3, 5)

4. Reflect the figure over the line $y = -x$.

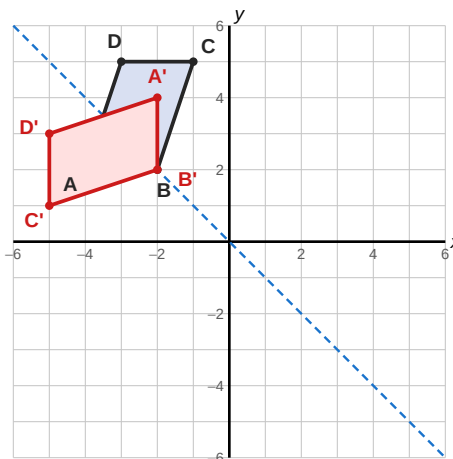


Image coordinates:

A' **(-2, 4)**

B' **(-2, 2)**

C' **(-5, 1)**

D' **(-5, 3)**

Original:

A (-4, 2)

B (-2, 2)

C (-1, 5)

D (-3, 5)

5. Reflect the figure over the x-axis.

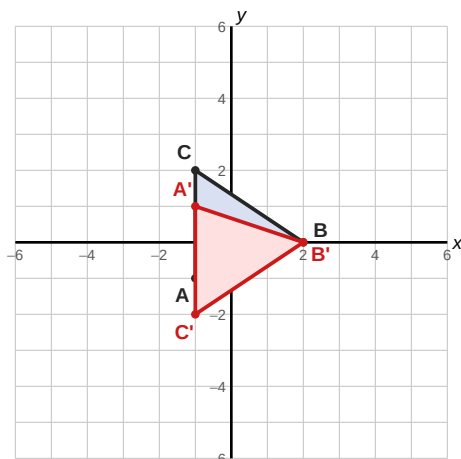


Image coordinates:

A' **(-1, 1)**

B' **(2, 0)**

C' **(-1, -2)**

Original:

A (-1, -1)

B (2, 0)

C (-1, 2)

6. Reflect the figure over the y-axis.

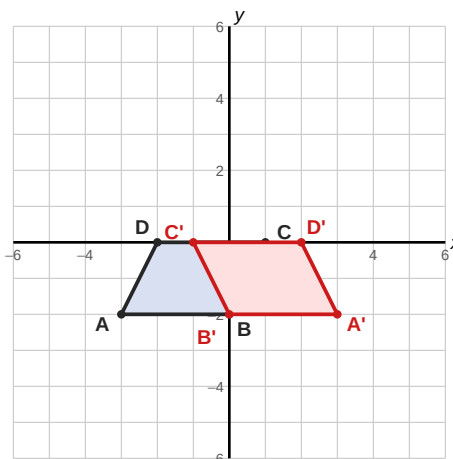


Image coordinates:

A' **(3, -2)**

B' **(0, -2)**

C' **(-1, 0)**

D' **(2, 0)**

Original:

A (-3, -2)

B (0, -2)

C (1, 0)

D (-2, 0)

Reflections (Part 2) — ANSWER KEY

Flip the figure over the given line. Each image point is the same distance from the line as the original.

7. Reflect the figure over the line $y = x$.

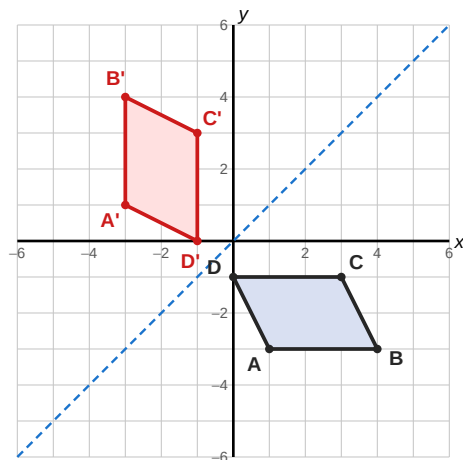


Image coordinates:

A' **(-3, 1)**

B' **(-3, 4)**

C' **(-1, 3)**

D' **(-1, 0)**

Original:

A (1, -3)

B (4, -3)

C (3, -1)

D (0, -1)

8. Reflect the figure over the line $y = -x$.

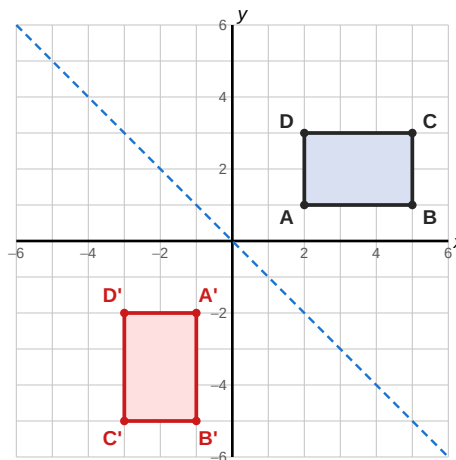


Image coordinates:

A' **(-1, -2)**

B' **(-1, -5)**

C' **(-3, -5)**

D' **(-3, -2)**

Original:

A (2, 1)

B (5, 1)

C (5, 3)

D (2, 3)

9. Reflect the figure over the line $x = -2$.

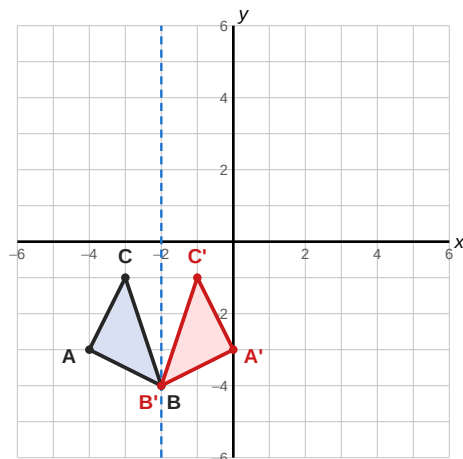


Image coordinates:

A' **(0, -3)**

B' **(-2, -4)**

C' **(-1, -1)**

Original:

A (-4, -3)

B (-2, -4)

C (-3, -1)

10. Reflect the figure over the line $y = 1$.

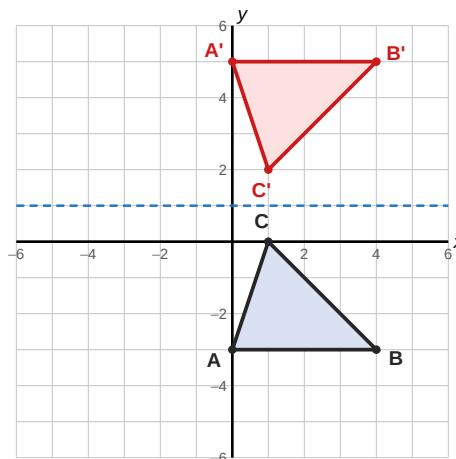


Image coordinates:

A' **(0, 5)**

B' **(4, 5)**

C' **(1, 2)**

Original:

A (0, -3)

B (4, -3)

C (1, 0)

11. Reflect the figure over the line $x = -2$.

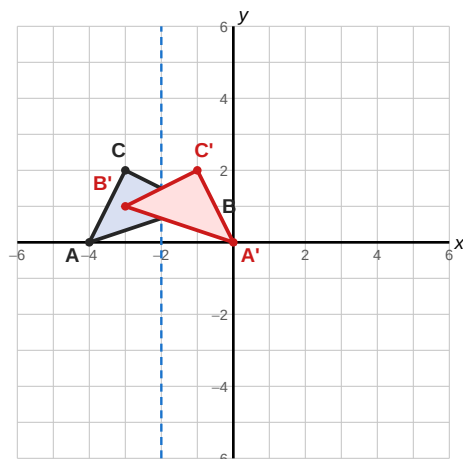


Image coordinates:

A' **(0, 0)**

B' **(-3, 1)**

C' **(-1, 2)**

Original:

A (-4, 0)

B (-1, 1)

C (-3, 2)

12. Reflect the figure over the line $y = 1$.

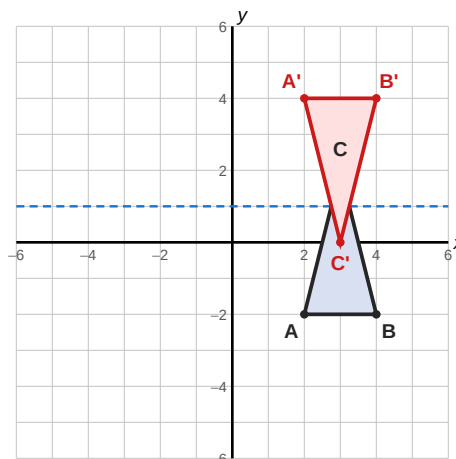


Image coordinates:

A' **(2, 4)**

B' **(4, 4)**

C' **(3, 0)**

Original:

A (2, -2)

B (4, -2)

C (3, 2)