

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.

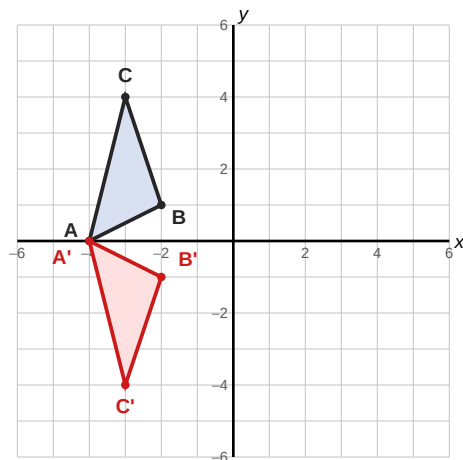


Image coordinates:

A' $(-4, 0)$

B' $(-2, -1)$

C' $(-3, -4)$

Original:

A $(-4, 0)$

B $(-2, 1)$

C $(-3, 4)$

2. Reflect the figure over the y-axis.

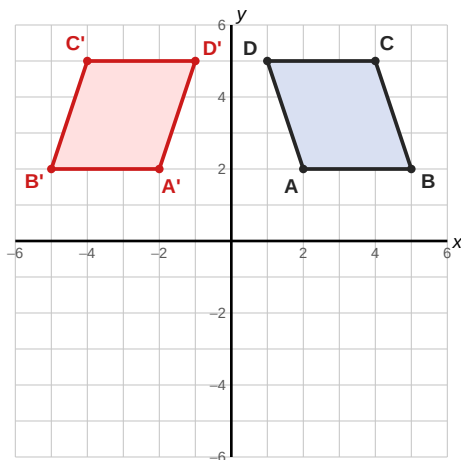


Image coordinates:

A' $(-2, 2)$

B' $(-5, 2)$

C' $(-4, 5)$

D' $(-1, 5)$

Original:

A $(2, 2)$

B $(5, 2)$

C $(4, 5)$

D $(1, 5)$

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

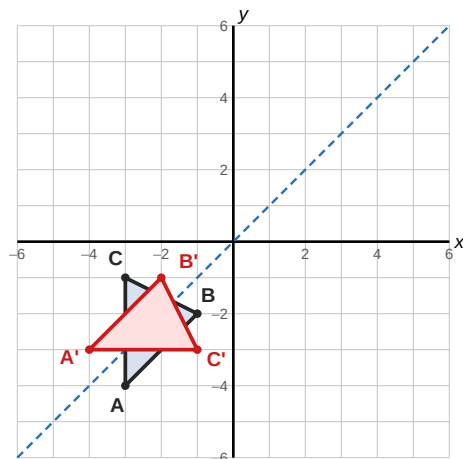


Image coordinates:

A' $(-4, -3)$

B' $(-2, -1)$

C' $(-1, -3)$

Original:

A $(-3, -4)$

B $(-1, -2)$

C $(-3, -1)$

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

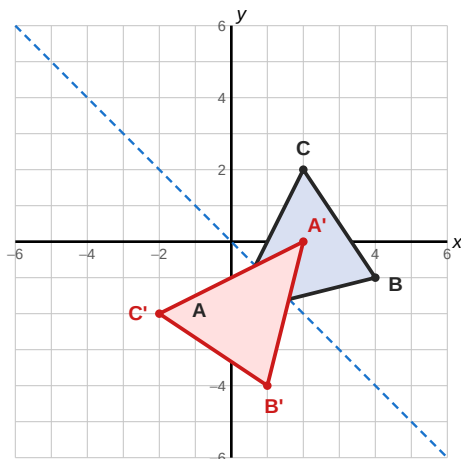


Image coordinates:

A' $(2, 0)$

B' $(1, -4)$

C' $(-2, -2)$

Original:

A $(0, -2)$

B $(4, -1)$

C $(2, 2)$

5. Reflect the figure over the x-axis.

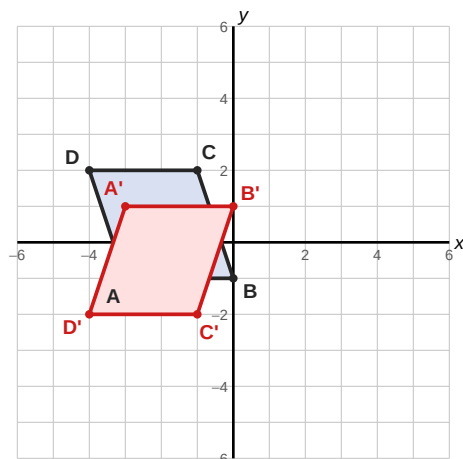


Image coordinates:

A' $(-3, 1)$

B' $(0, 1)$

C' $(-1, -2)$

D' $(-4, -2)$

Original:

A $(-3, -1)$

B $(0, -1)$

C $(-1, 2)$

D $(-4, 2)$

6. Reflect the figure over the y-axis.

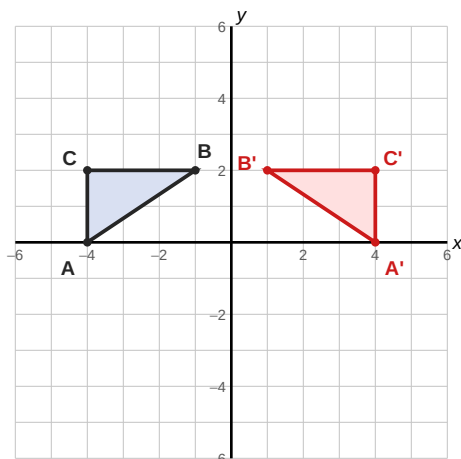


Image coordinates:

A' $(4, 0)$

B' $(1, 2)$

C' $(4, 2)$

Original:

A $(-4, 0)$

B $(-1, 2)$

C $(-4, 2)$

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 $y = x$.

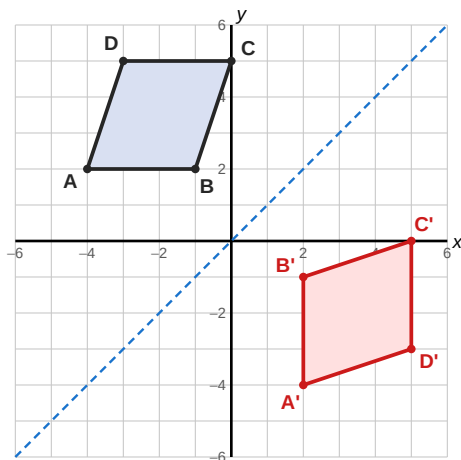


Image coordinates:

A' (2, -4)

B' (2, -1)

C' (5, 0)

D' (5, -3)

Original:

A (-4, 2)

B (-1, 2)

C (0, 5)

D (-3, 5)

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

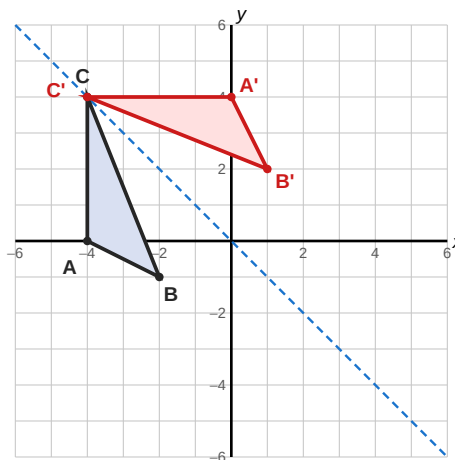


Image coordinates:

A' (0, 4)

B' (1, 2)

C' (-4, 4)

Original:

A (-4, 0)

B (-2, -1)

C (-4, 4)

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

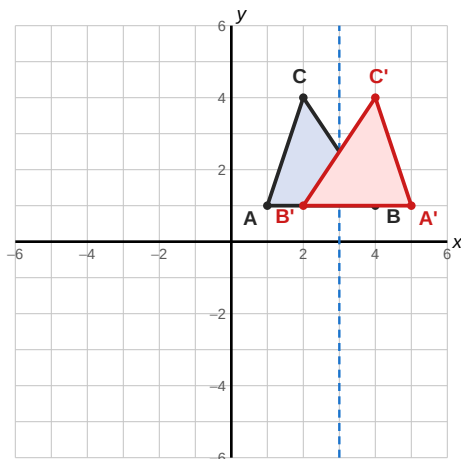


Image coordinates:

A' (5, 1)

B' (2, 1)

C' (4, 4)

Original:

A (1, 1)

B (4, 1)

C (2, 4)

10. Reflect the figure over the line $y = 2$.

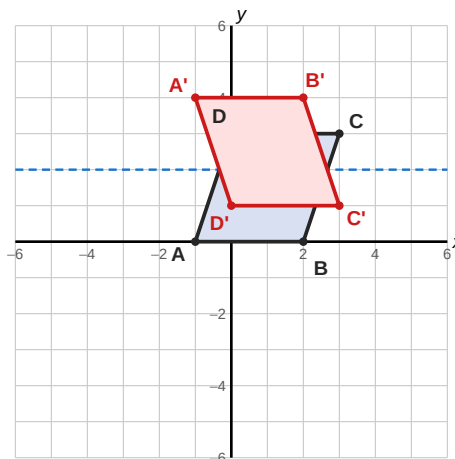


Image coordinates:

A' (-1, 4)

B' (2, 4)

C' (3, 1)

D' (0, 1)

Original:

A (-1, 0)

B (2, 0)

C (3, 3)

D (0, 3)

11. Reflect the figure over the line $x = 1$.

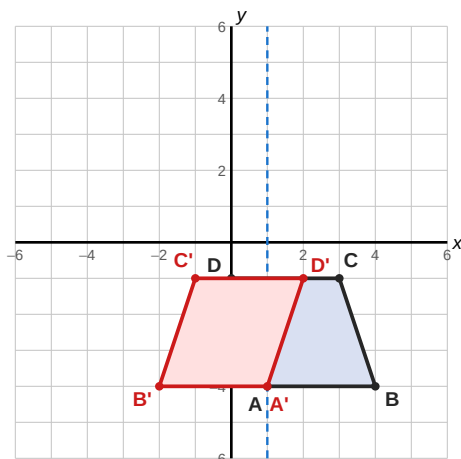


Image coordinates:

A' (1, -4)

B' (-2, -4)

C' (-1, -1)

D' (2, -1)

Original:

A (1, -4)

B (4, -4)

C (3, -1)

D (0, -1)

12. Reflect the figure over the line $y = 2$.

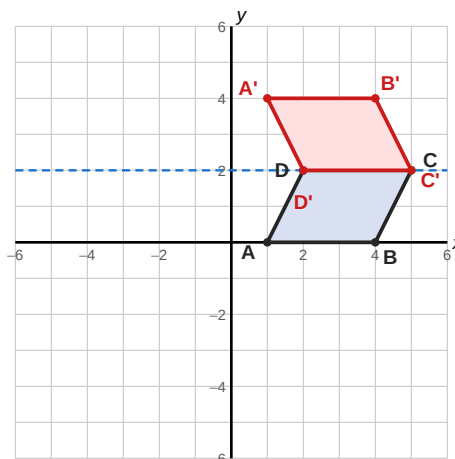


Image coordinates:

A' (1, 4)

B' (4, 4)

C' (5, 2)

D' (2, 2)

Original:

A (1, 0)

B (4, 0)

C (5, 2)

D (2, 2)