

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.

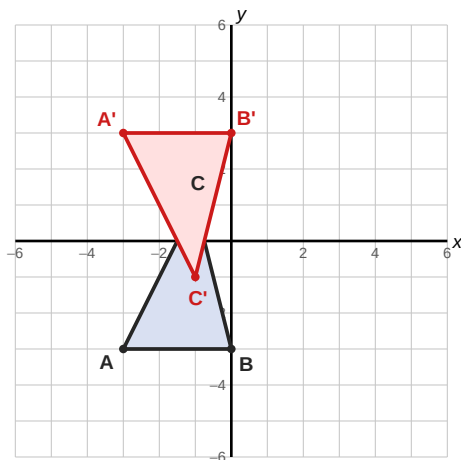


Image coordinates:

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

B' **$(0, 3)$**

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

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

2. Reflect the figure over the y-axis.

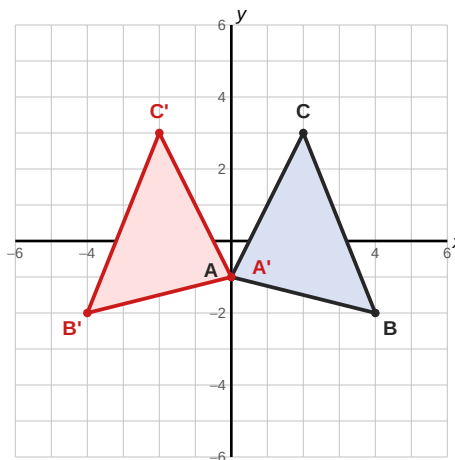


Image coordinates:

A' **$(0, -1)$**

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

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

Original:
A $(0, -1)$
B $(4, -2)$
C $(2, 3)$

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

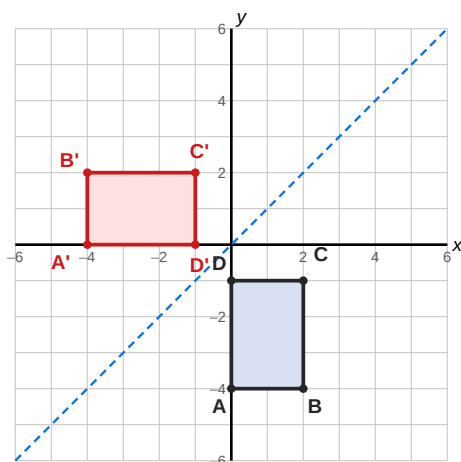


Image coordinates:

A' **$(-4, 0)$**

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

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

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

Original:
A $(0, -4)$
B $(2, -4)$
C $(2, -1)$
D $(0, -1)$

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

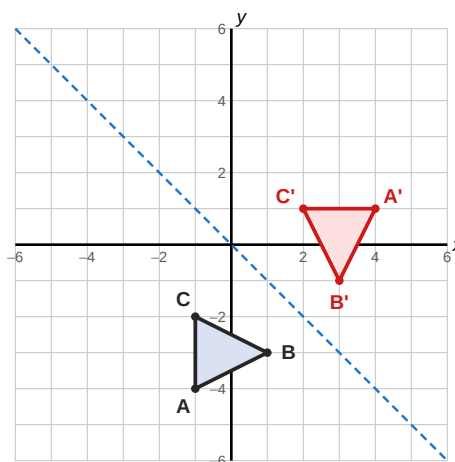


Image coordinates:

A' **$(4, 1)$**

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

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

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

5. Reflect the figure over the x-axis.

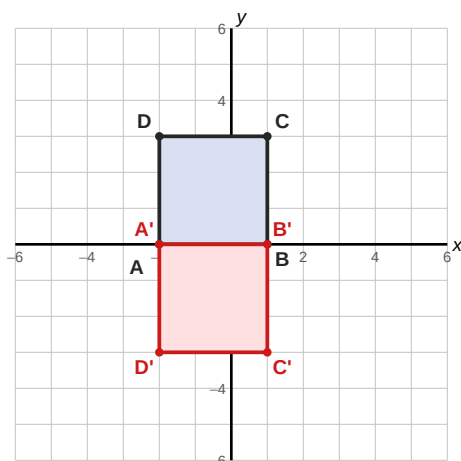


Image coordinates:

A' **$(-2, 0)$**

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

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

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

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

6. Reflect the figure over the y-axis.

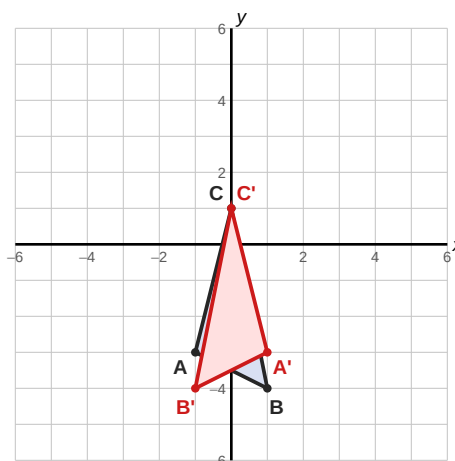


Image coordinates:

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

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

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

Original:
A $(-1, -3)$
B $(1, -4)$
C $(0, 1)$

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 $y = x$.

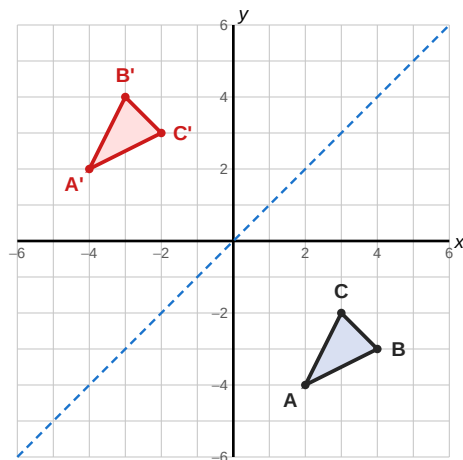


Image coordinates:

A' $(-4, 2)$

B' $(-3, 4)$

C' $(-2, 3)$

Original:

A $(2, -4)$

B $(4, -3)$

C $(3, -2)$

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

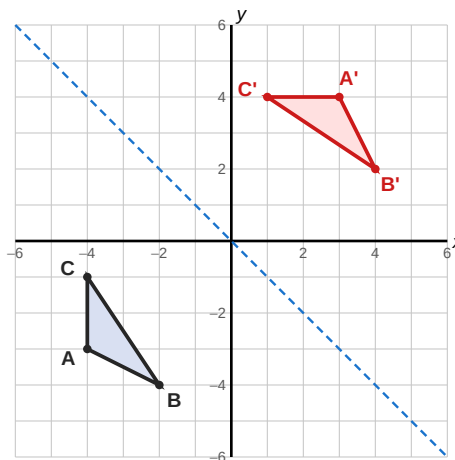


Image coordinates:

A' $(3, 4)$

B' $(4, 2)$

C' $(1, 4)$

Original:

A $(-4, -3)$

B $(-2, -4)$

C $(-4, -1)$

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

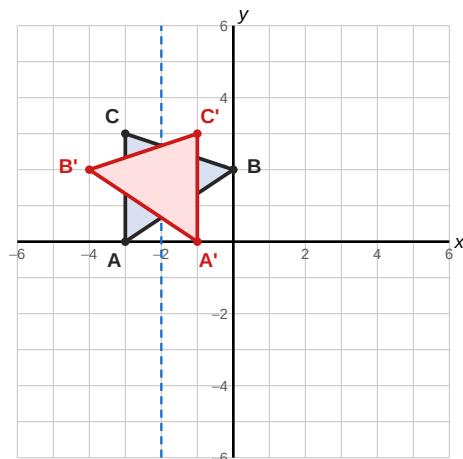


Image coordinates:

A' $(-1, 0)$

B' $(-4, 2)$

C' $(-1, 3)$

Original:

A $(-3, 0)$

B $(0, 2)$

C $(-3, 3)$

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

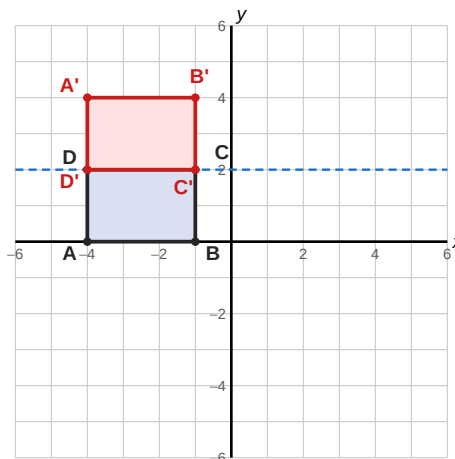


Image coordinates:

A' $(-4, 4)$

B' $(-1, 4)$

C' $(-1, 2)$

D' $(-4, 2)$

Original:

A $(-4, 0)$

B $(-1, 0)$

C $(-1, 2)$

D $(-4, 2)$

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

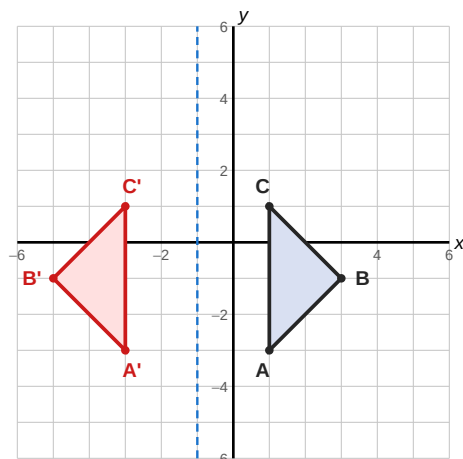


Image coordinates:

A' $(-3, -3)$

B' $(-5, -1)$

C' $(-3, 1)$

Original:

A $(1, -3)$

B $(3, -1)$

C $(1, 1)$

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

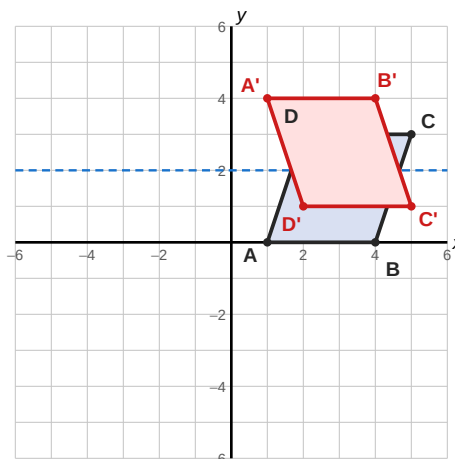


Image coordinates:

A' $(1, 4)$

B' $(4, 4)$

C' $(5, 1)$

D' $(2, 1)$

Original:

A $(1, 0)$

B $(4, 0)$

C $(5, 3)$

D $(2, 3)$