Reflections across the x-axis

Example: Reflect figure ABC across the x-axis

A(-4, 2)→_____

B(-4, 5)→_____

C(-1, 2)→

Reflections across the line y=x

Example: Reflect figure ABC across \leftarrow the x-axis

A(-4, 2)→

B(-4, 5)→_____

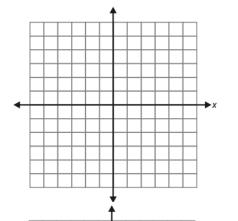
C(-1, 2)→

Reflections across the line y=____

Example: Reflect figure ABC across the line y=-1

A(-4, 2)→_____

B(-4, 5)→_____ C(-1, 2)→



Reflections across the y-axis

Example: Reflect figure ABC across the y-axis

A(-4, 2)→_____

B(-4, 5)→

C(-1, 2)→

Reflections across the line y=-x

Example: Reflect figure ABC across the y-axis

A(-4, 2)→

B(-4, 5)→_____

C(-1, 2)→

Reflections across the line x=___

Example: Reflect figure ABC across the line x=1

A(-4, 2)→_____

B(-4, 5)→_____

C(-1, 2)→

Practice 1:

Directions: Write what the coordinates will be by reflecting each of the given points across the x-axis. Use the reflection rules above to help you answer the questions. When reflecting across the x-axis, the x-value remains the same and change the sign of the y-value.

- 1) A (4,5)
- A' (
- 2) D (-3,-5) D'()
- 3) G (-6,-8)
- G' (

- 4) M (-2,8) M'()
- 5) N (7,0) N' ()
- 6) E (-5,4)
- E' (

)

Directions: Write what the coordinates will be by reflecting each of the given points across the y-axis. Use the reflection rules above to help you answer the questions. When reflecting across the y-axis, the y-value remains the same and change the sign of the x-value.

- 7) J (-2,-4) J' (

- 8) Y (-5,7) Y' ()
- 9) S (4,6)
- S' ()

- 10) Q (4,7) Q' (
- 11) R (-12,3) R' ()
- 12) W (3,8)
- W' ()

Directions: Write what the coordinates will be by reflecting each of the given points across the line y=x. Use the reflection rules above to help you answer the questions. When reflecting across the line y=x, the x-value and yvalue switch spots.

- 13) H (4,5) H' (
-)
- 14) X (-3,-4) X' ()
- 15) B (-6,-6)
- B' ()

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

- 17) J (11,5) J' () 18) P (-2,-4)
- P' ()

Directions: Write what the coordinates will be by reflecting each of the given points across the line y=-x. Use the reflection rules above to help you answer the questions. When reflecting across the line y=-x, the x-value and yvalue switch spots and change signs.

19) V (-8,-5) V' (

- 20) C (-6,-2) C'()
- 21) D (3,-1)
- D' (

)

- 22) O (2,2) O' (
- 23) U (-4,5) U' (
- 24) K (9,-6)
- K' ()

Practice 2:

1) Reflect figure ABCD across the x-axis. Draw the reflected figure on the coordinate plane.

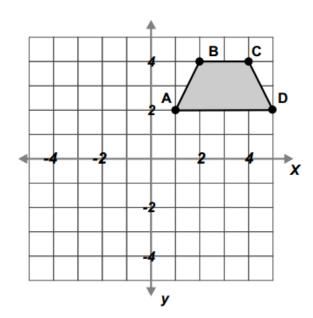
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What are the new coordinates?

- A'
- B'
- C'
- D'
- 2) Reflect figure ABCD across the y-axis. Draw the reflected figure on the coordinate plane.

What are the new coordinates?

- A'
- B'
- C'
- D'



- 3) After reflecting figure ABCD across the x-axis, 4) After reflecting figure ABCD across the y-axis, what quadrant did the figure end up in?
- what quadrant did the figure end up in?