Name:

# Combinations of Transformations Practice #1

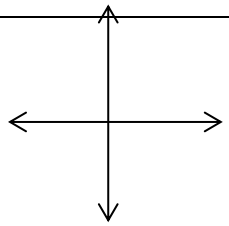
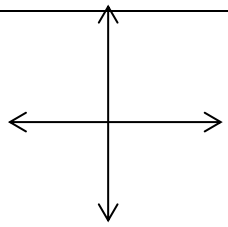
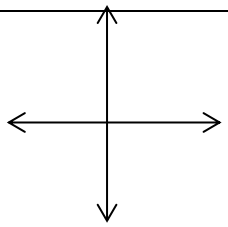
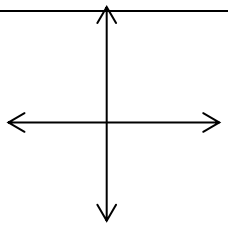
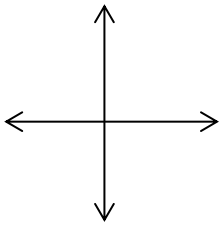
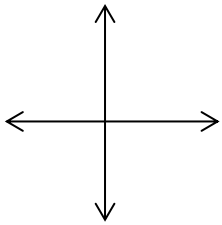
## TRANSLATIONS: (x,y) → (x ± #, y ± #)

| | |
|---|---|
| **X +** Moves_____ | **Y +** Moves_____ |
| **X –** Moves_____ | **Y –** Moves_____ |

## ROTATIONS:

| | | |
|---|---|---|
| **90º Clockwise 270º Counter Clockwise** | **90º Counter Clockwise 270º Clockwise** | **180º Clockwise / counter clockwise** |
| | | |

## REFLECTIONS

| **X- Axis** | **Y-Axis** | **X =** | **Y =** |
|---|---|---|---|
|  |  |  |  |
| **y = x** | | **y = -x** | |
| (x, y) → ( , )  | | (x, y) → ( , )  | |

## Combinations! (Putting it all together ☺ )

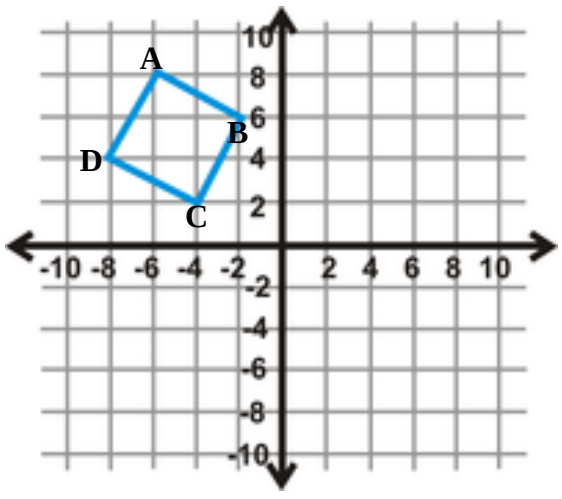
1. Write the points of the preimage below. Then complete the following transformations. A reflection over the x-axis and then rotation of 90º counterclockwise about the origin.

**A( , ) → A'( , ) → A''( , )**

**B( , ) → B'( , ) → B''( , )**

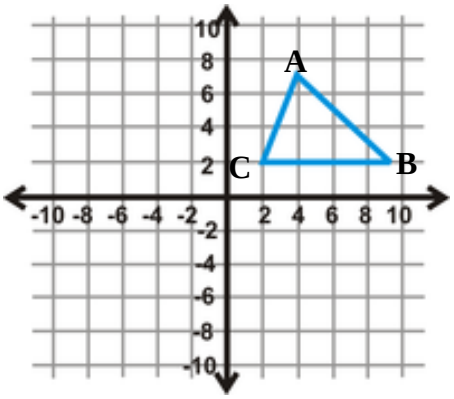
**C( , ) → C'( , ) → C''( , )**

**D( , ) → D'( , ) → D''( , )**



# Combinations of Transformations Practice #1

2. Write the points of the preimage below. Then complete the following transformations. A rotation of 180 º clockwise and then a translation of using the rule (x,y) → (x + 4, y – 2 )

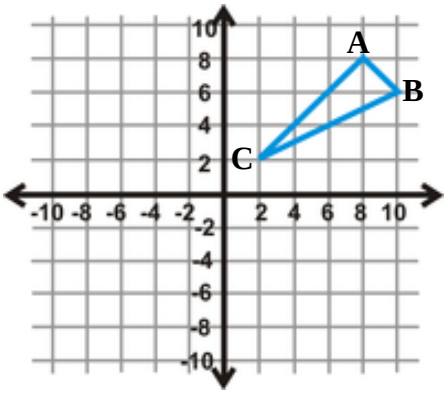



**A( , ) → A'( , ) → A''( , )**

**B( , ) → B'( , ) → B''( , )**

**C( , ) → C'( , ) → C''( , )**

3. Write the points of the preimage below. Then complete the following transformations. A translation of left 8 and up 2 then a rotation of 270º clockwise about the origin.

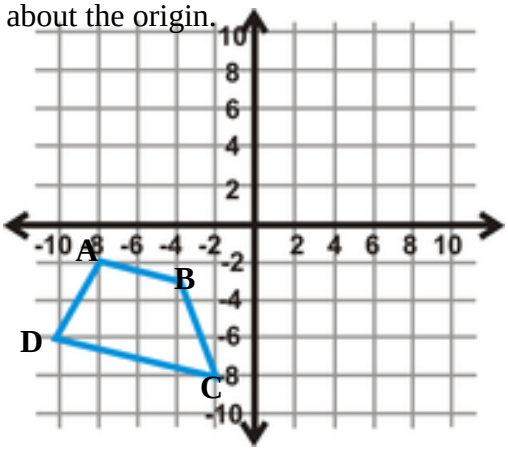



**A( , ) → A'( , ) → A''( , )**

**B( , ) → B'( , ) → B''( , )**

**C( , ) → C'( , ) → C''( , )**

4. Write the points of the preimage below. Then complete the following transformations. A reflection over the line y = -x and then a rotation of 270 º counterclockwise about the origin.



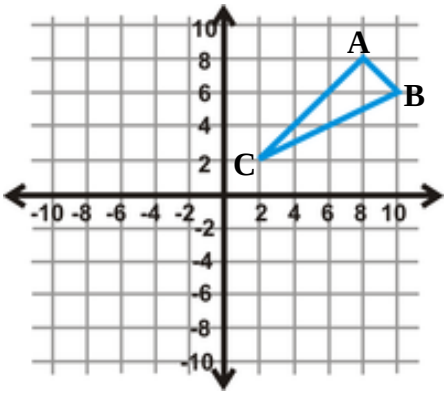

**A( , ) → A'( , ) → A''( , )**

**B( , ) → B'( , ) → B''( , )**

**C( , ) → C'( , ) → C''( , )**

**D( , ) → D'( , ) → D''( , )**

5. Write the points of the preimage below. Then complete the following transformations. A rotation 90 º counter clockwise then a reflection over the line y = 2




**A( , ) → A'( , ) → A''( , )**

**B( , ) → B'( , ) → B''( , )**

**C( , ) → C'( , ) → C''( , )**