

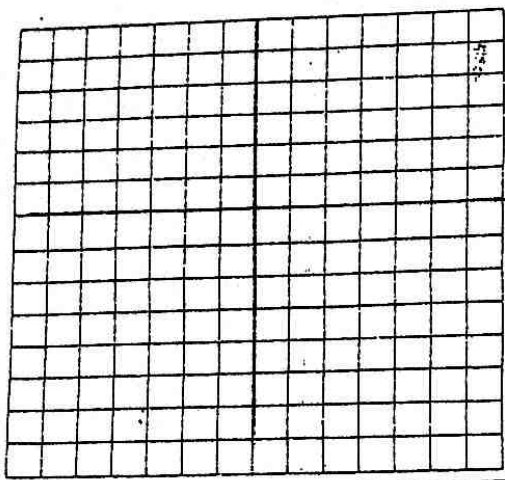
20: Composite Transformations

Name: _____

Directions: Transform ABCD by the composite transformations.

$$\overline{A(0, 4) \quad C(2, 4)}$$

$$\underline{B(1, 1) \quad D(2, 3)}$$

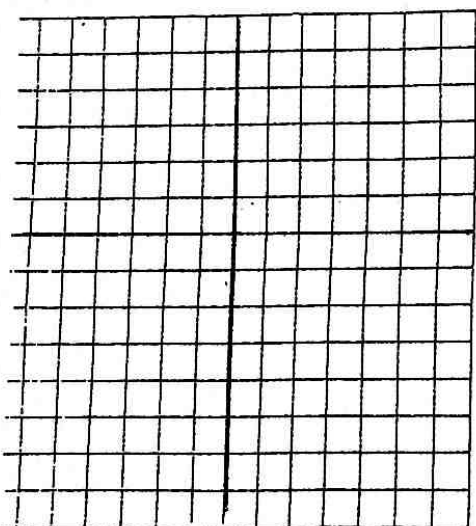


1st

$$(x, y) \rightarrow (x-3, y-1)$$

Reflection over x-axis

2nd



1st

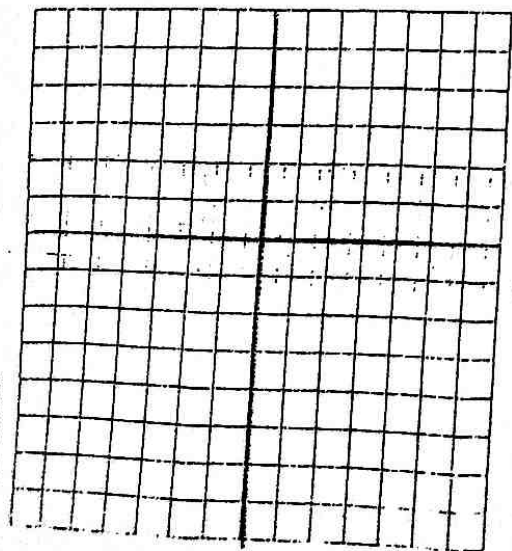
$$\overline{A(0, 4) \quad C(2, 4)}$$

$$\underline{B(1, 1) \quad D(2, 3)}$$

$$(x, y) \rightarrow (x-2, y+1)$$

Rotate 180° around the origin

2nd



1st

$$\overline{A(0, 4) \quad C(2, 4)}$$

$$\underline{B(1, 1) \quad D(2, 3)}$$

$$(x, y) \rightarrow (x+3, y-1)$$

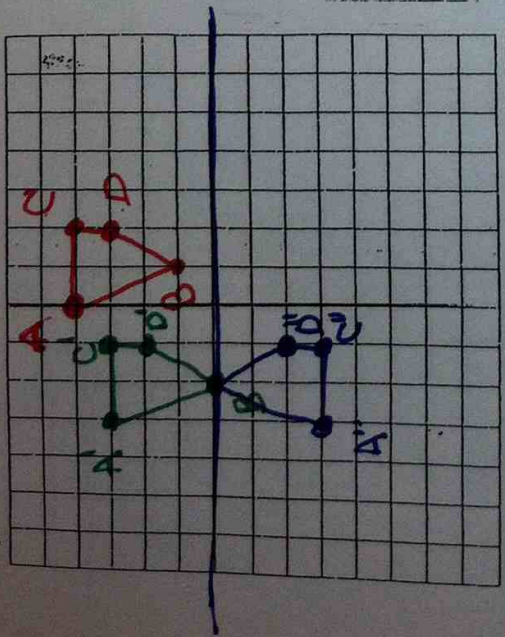
Rotate 90° counter-clockwise around the origin

2nd

20: Composite Transformations

Name: _____

Directions: Transform ABCD by the composite transformations.



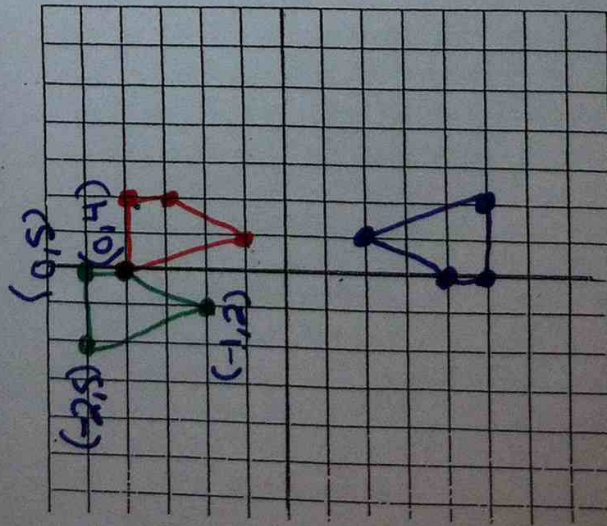
~~A(0, 4)~~ C(2, 4)

~~B(1, 1)~~ D(2, 3)

2nd

Reflection over x-axis

$$(x, y) \rightarrow (x-3, y-1)$$



A(0, 4) C(2, 4)

B(1, 1) D(2, 3)

2nd

Rotate 180° around the origin

$$(x, y) \rightarrow (x-2, y+1)$$

$$(x, y) \rightarrow (-y, x)$$