

# Compositions

④  $(-x, -y)$  7, 8  
 $C(-4, 1)$   $C'(4, -1)$   
 $R(-4, -4)$   $180^\circ$   $R'(4, 4)$   
 $y(-2, -3)$   $y'(2, 3)$

Composition—combining two or more transformations to form a single transformation

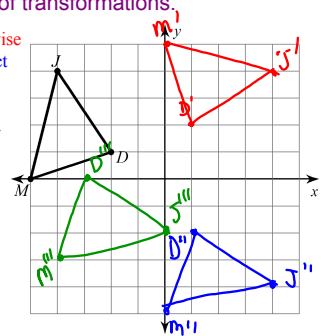
- Glide reflection—a translation followed by a reflection over a line parallel to the vector of the translation



Graph the composition of transformations.

Rotate the triangle  $90^\circ$  clockwise around the origin. Then reflect the triangle over the  $x$ -axis. Finally, translate the triangle 2 units up and 4 units to the left.

$J(4, 4)$   $(4, 4)$   
 $m(-5, 0)$   $(0, 5)$   
 $D(-2, 1)$   $(1, 2)$   
 $(y; x)$

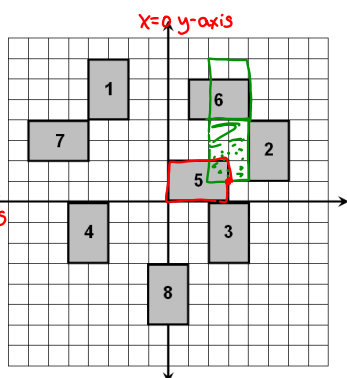


Reflect Figure 1 over the y-axis.  
 Translate it three units down and  
 rotate it 90° counterclockwise  
 around the point (3, 1).

Which figure does Figure 1 now  
 match?

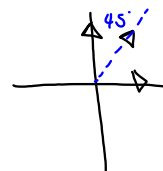
5

$y=0$   
 $x$ -axis



### Conclusion

1. What is a Composition?
2. Do you have to do the order they give you?
3. Question???



## Assignment

## Composition Wkst