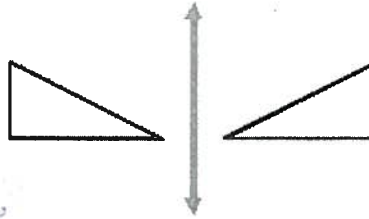


# Reflections

key

Reflections mean that we are going to take a shape and flip it like a pancake over an axis.

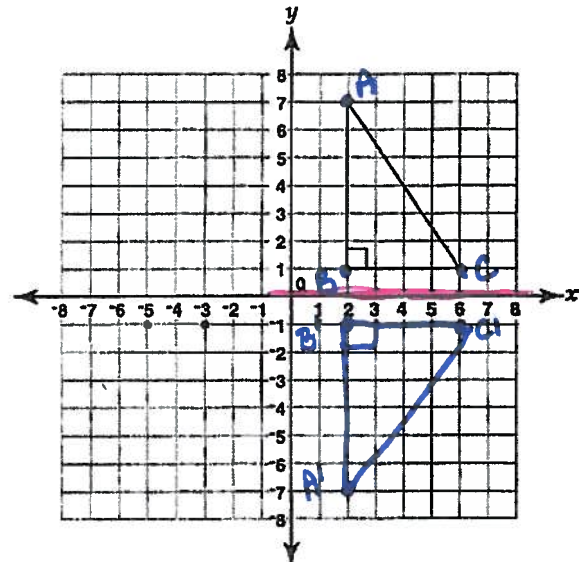


Here are your steps

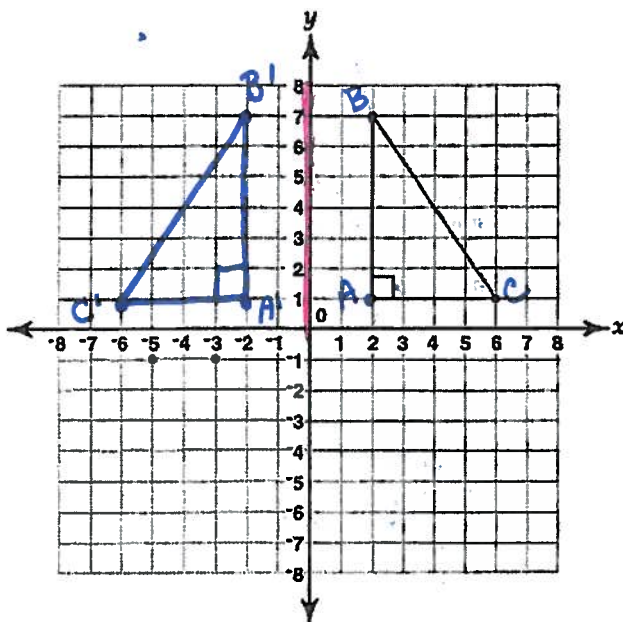
1. HIGHLIGHT the axis that you are going to reflect over
2. Take one point and count until you hit the highlighted line.
3. Count the same number on the other side of the axis and plot the new point
4. Do this for all points and connect the points.
5. Write the new coordinates.

$A (2, 7)$        $A' (2, -7)$   
 $B (2, 1)$        $B' (2, -1)$   
 $C (6, 1)$        $C' (6, -1)$

Look at the shape and reflect it over the X-axis.



$A = (2, 1)$   
 $B = (2, 7)$   
 $C = (6, 1)$

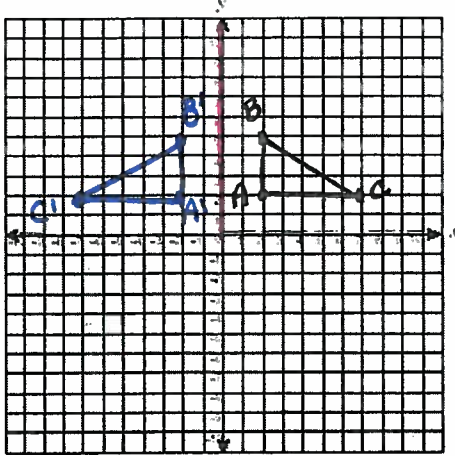


Reflect it over the Y-axis

$A' = (-2, 1)$   
 $B' = (-2, 7)$   
 $C' = (-6, 1)$

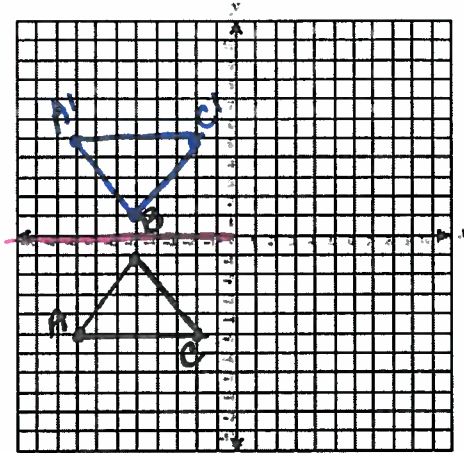
# Your turn to practice!

1. Give the coordinate of ABC. Reflect over the y-axis. Then give the new prime points below.



A (2, 2)  
 B (2, 5)  
 C (7, 2)  
 A' (-2, 2)  
 B' (-2, 5)  
 C' (-7, 2)

2. Give the coordinates of ABC. Reflect over the x-axis. Then give the coordinates of the prime points below.



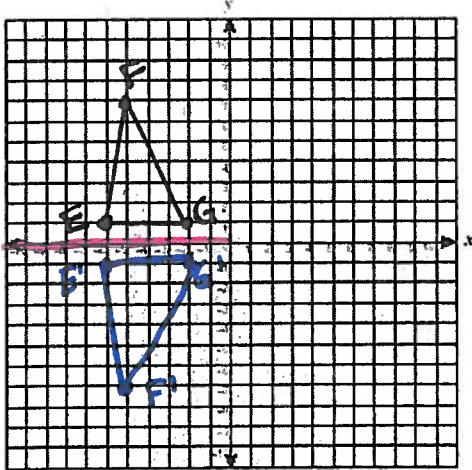
Answers to number 1

A (     )     A' (     )  
 B (     )     B' (     )  
 C (     )     C' (     )

Answers to number 2

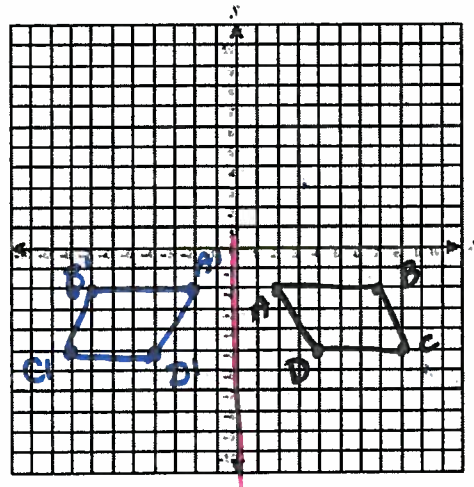
A (     )     A' (-8, 5)  
 B (-5, -1)     B' (-5, 1)  
 C (-2, -5)     C' (-2, 5)

3. Plot E(-4,-3), F(-4,-1), G(0,-2). Reflect across the x-axis. Give the coordinates of the primes.



3. E' (-4, 3)     E (-4, -1)  
 F' (-4, 1)     F (-4, -1)  
 G' (0, 2)     G (0, -2)

4. Plot A(1,0), B(0,3), C(1,3), D(4,-1). Reflect across the y-axis. Give the coordinates of A'B'C'D'.



4. A' (-1, 0)  
 B' (0, 3)  
 C' (-1, 3)  
 D' (-4, -1)