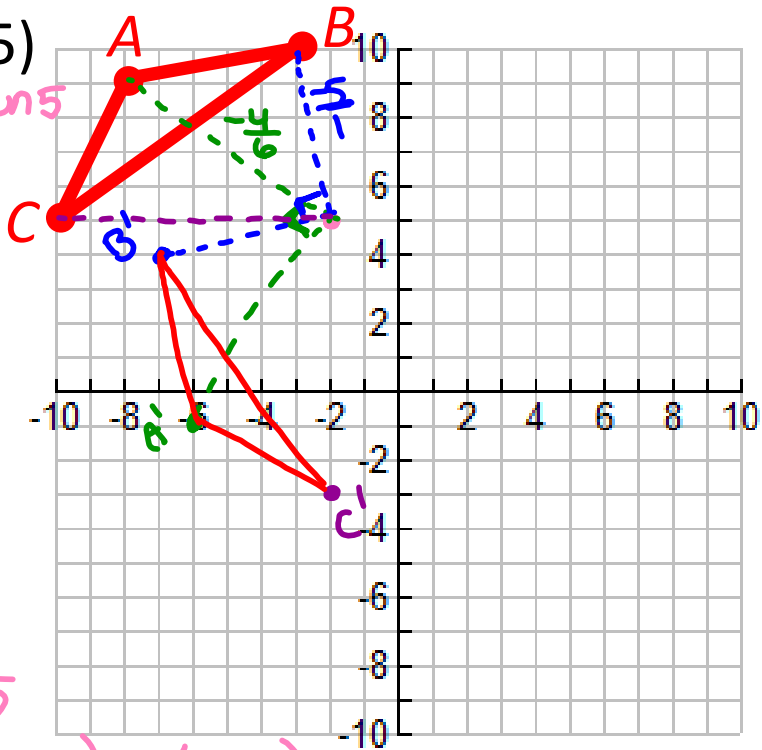
Warm-up

Given triangle ABC: A(1, -5) B(0, 6) C(-3, -2)

1. Translate (x, y) --> (x -3, y + 5) A'(-2,0) B'(-3,11) C'(-6,3)
2. Reflect over x-axis A'(1, 5) B'(0, -6) C'(-3, 2)
3. Rotate 90° clockwise A'(-5, -1) B'(6, 0) C'(-2, 3)

Rotate 90° counterclockwise about the point (-2, 5)



Right 2, Down 5

A(-6, 4)

B(-1, 5)

C(-8, 0)

Rotate

A(-4, -6)

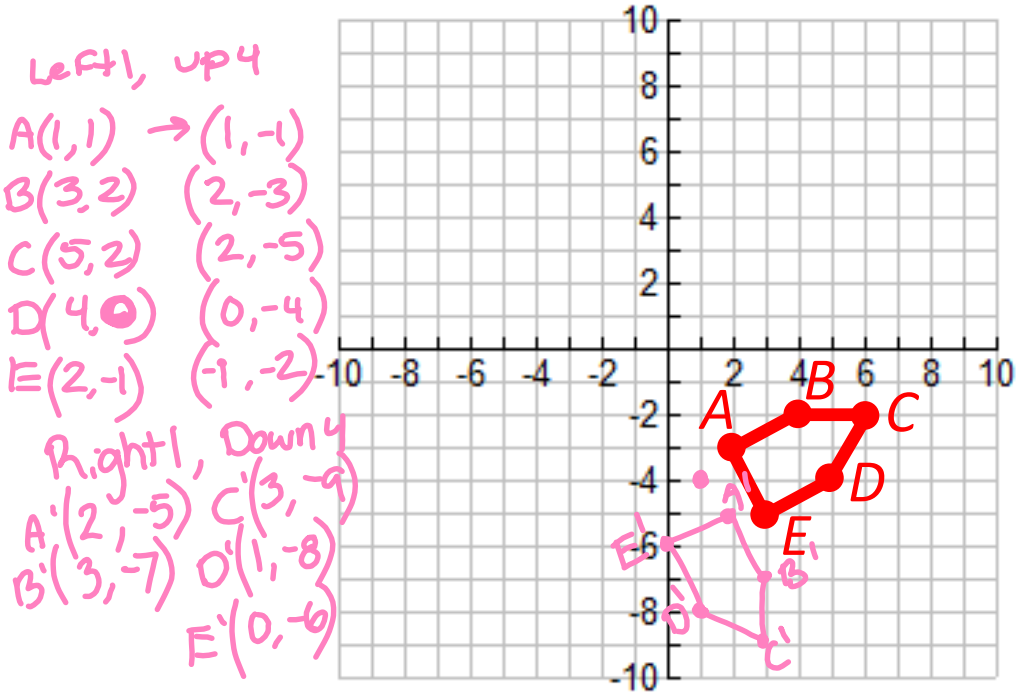
B(-5, -1)

C(0, -8)

Left 2, up 5

A'(-6, -1) B'(-7, 4) C'(-2, -3)

Rotate 90° clockwise about the point (1, -4)

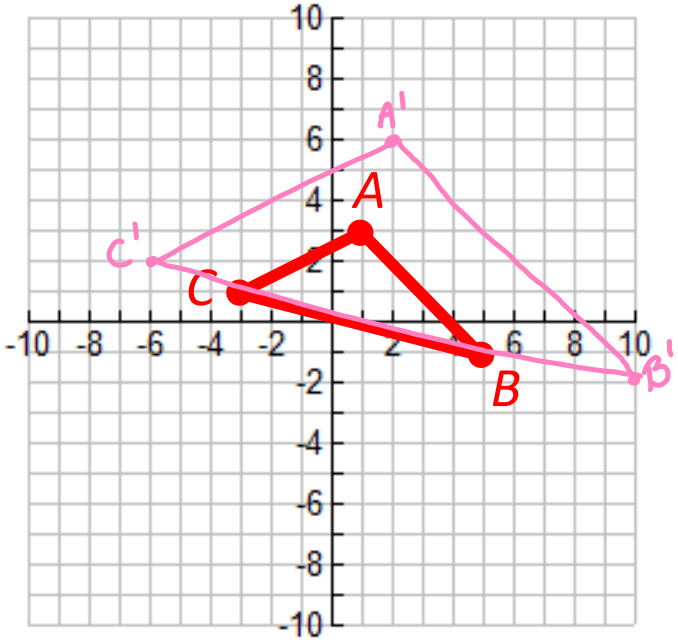


Homework Answers

Pop Quiz!!

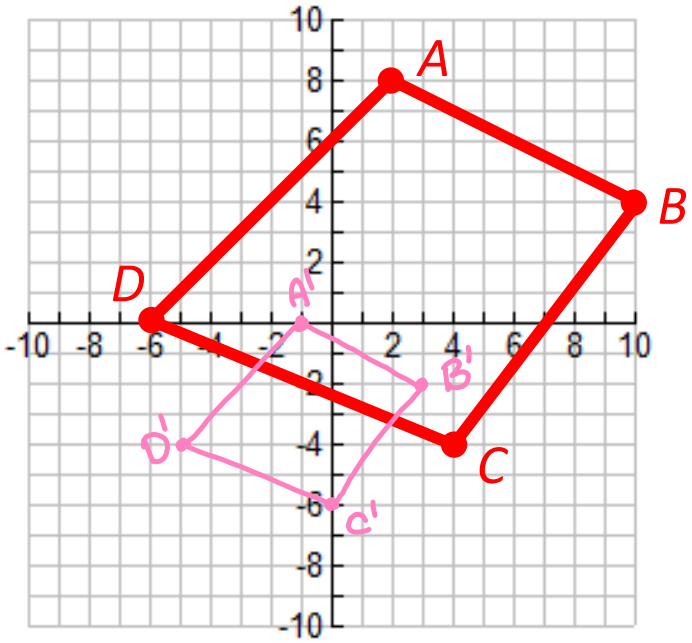
$(x, y) \rightarrow (2x, 2y)$

center of dilation: origin

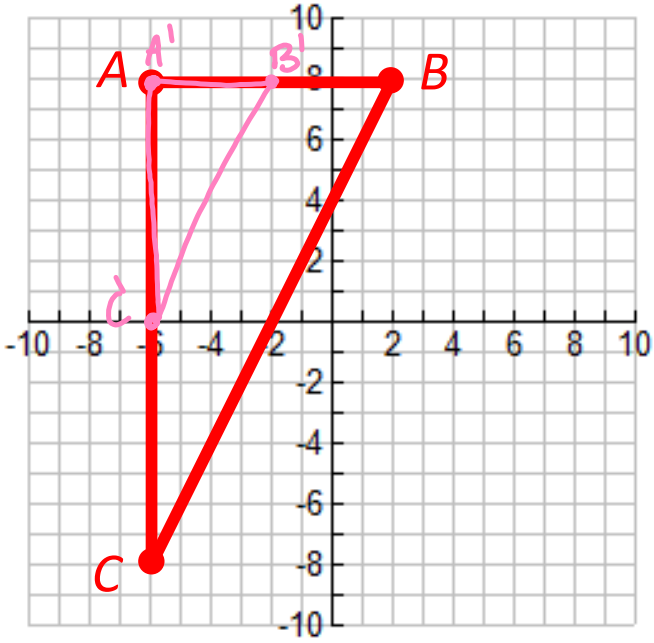


$(x, y) \rightarrow (.5x - 2 , .5y - 4)$

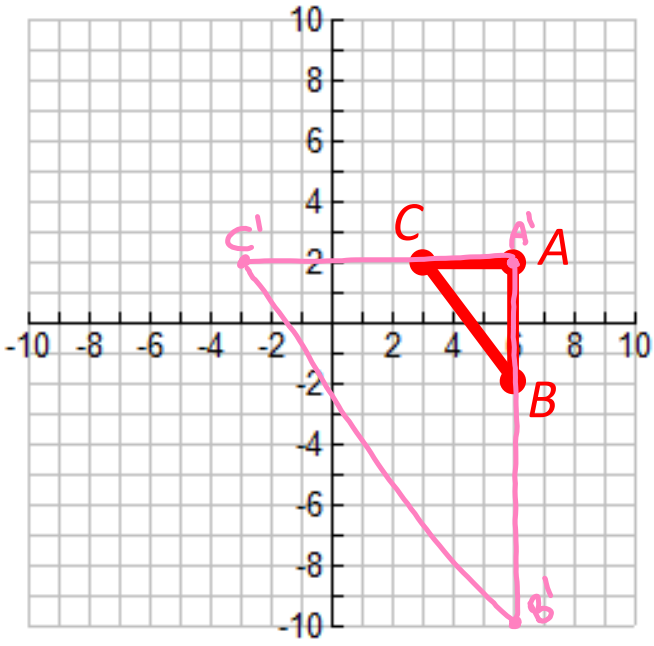
center of dilation: origin



dilation with center at *A* and scale factor of .5

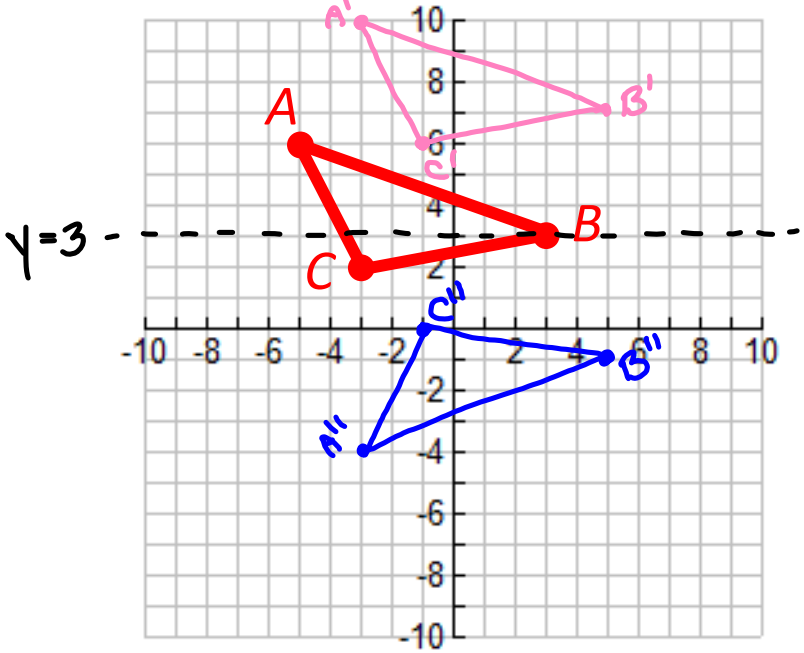


dilation with center at *A* and scale factor of 3



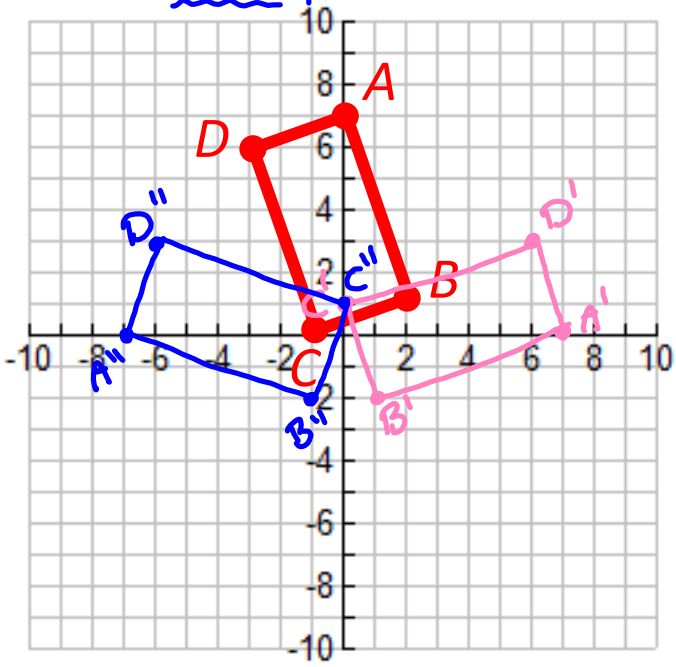
$(x, y) \longrightarrow (x + 2, y + 4)$

Reflection in the line $y = 3$



Rotate 90° clockwise about the origin

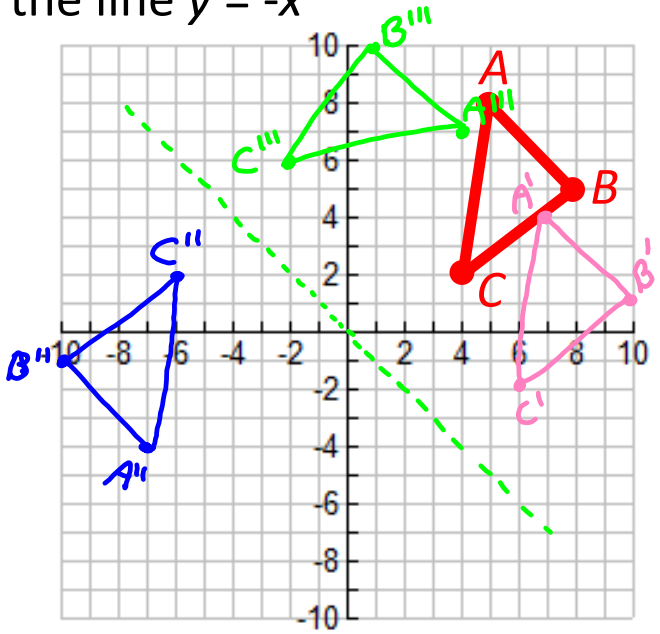
Reflect in the line $x = 0$ y-axis!



$(x, y) \longrightarrow (x + 2, y - 4)$

Rotate 180° about the origin

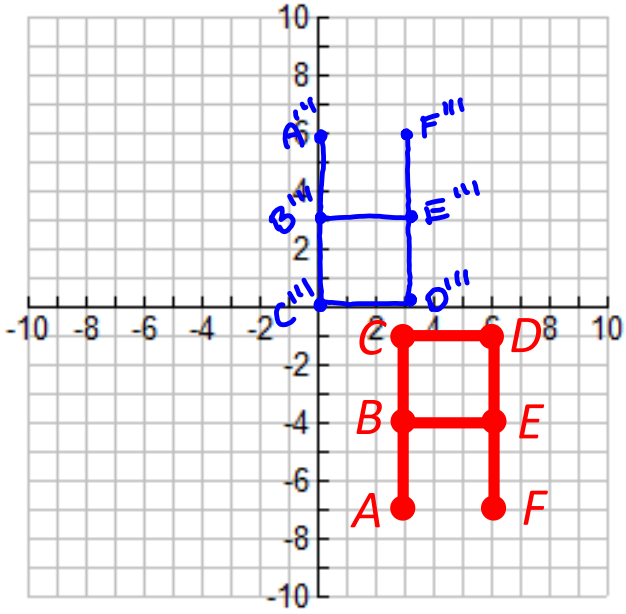
Reflect in the line $y = -x$



Reflect in the line $y = x$

Rotate 90° clockwise about (2, 2)

$(x, y) \longrightarrow (x - 3, y - 5)$



Based on calendar I gave you...

1. Review Day Monday (you'll have all 90 mins to work on it)

2. Test Day Tuesday