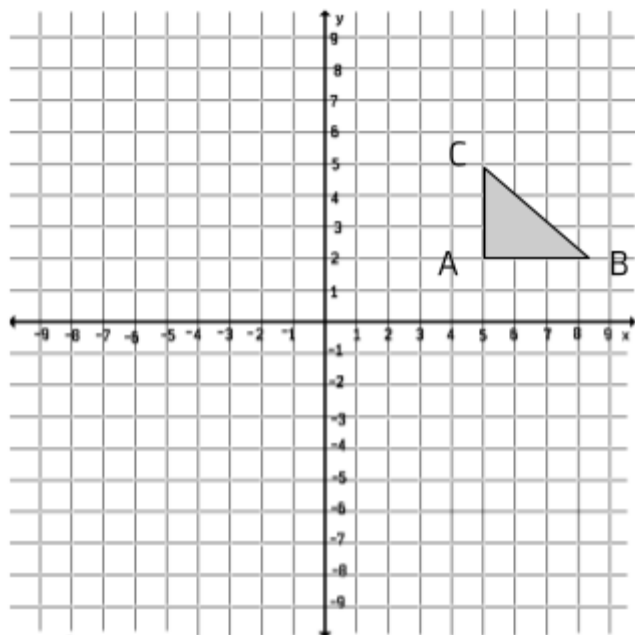


Name: _____

Dilations Not Centered at (0,0) HW

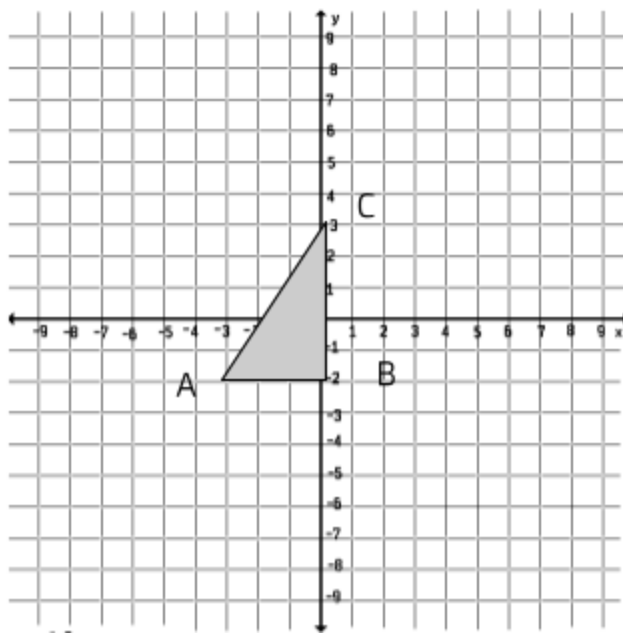
Directions (1-3): Graph the given dilations.

1. $D_{((7,5),0.5)}ABC$



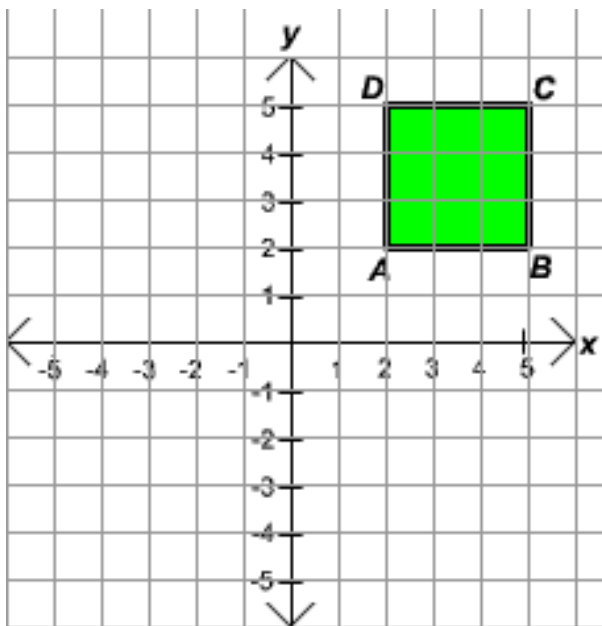
A(5, 2), B(8.5, 2), C(5, 5)

2. $D_{((0,-2),2)}ABC$

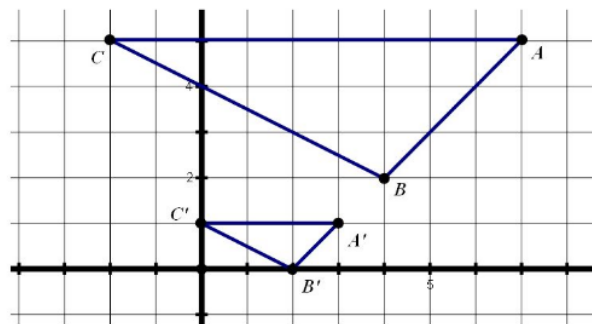


A(-3, -2), B(0, -2), C(0, 3)

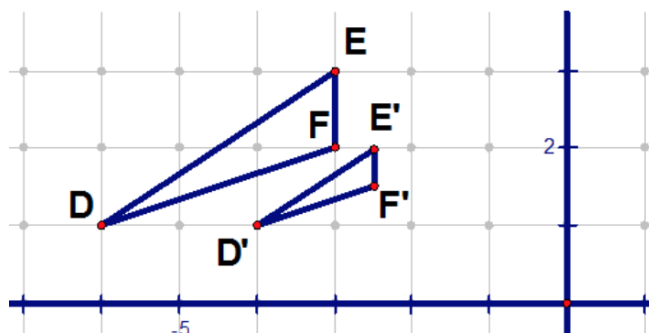
3. $D_{(3, (6,6))}ABCD$



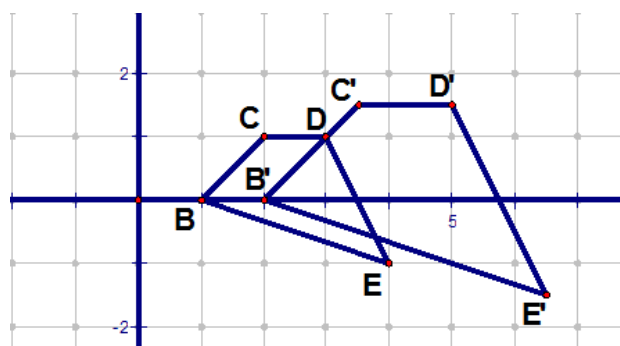
4. Find the center of dilation and scale factor. You must find the center of dilation algebraically.



5. Find the center of dilation and scale factor. You must find the center of dilation algebraically.



6. Find the center of dilation and scale factor. You must find the center of dilation algebraically.

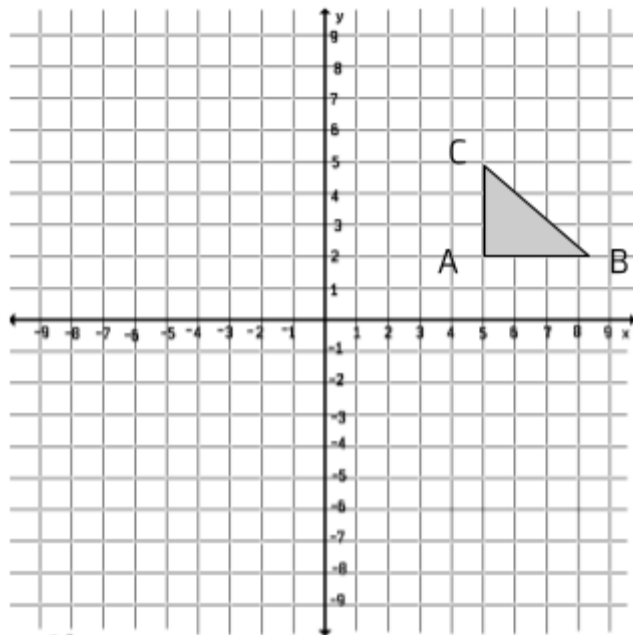


Name: **Key**

Dilations Not Centered at (0,0) HW

Directions (1-3): Graph the given dilations.

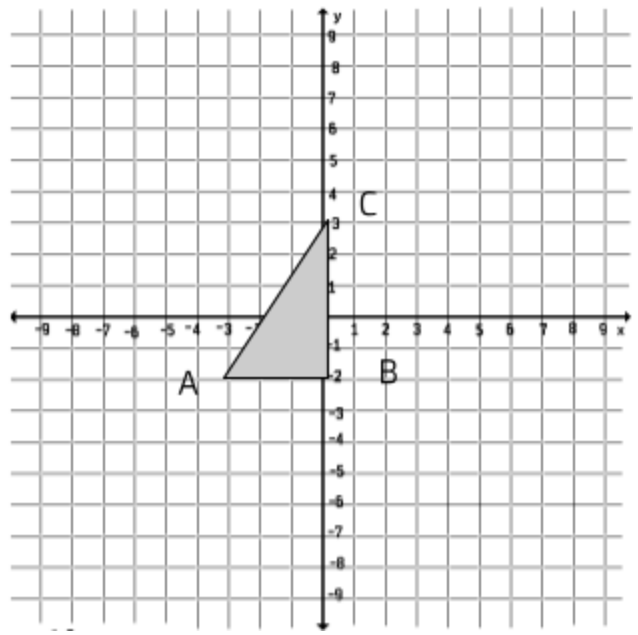
1. $D_{((7,5),0.5)}ABC$



$A(5, 2), B(8.5, 2), C(5, 5)$

$A'(6, 3.5), B'(7.75, 3.5), C'(6, 5)$

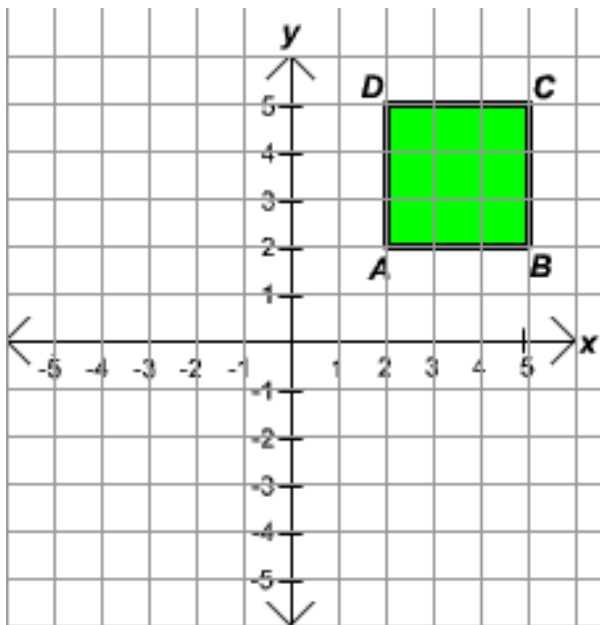
2. $D_{((0,-2),2)}ABC$



$A(-3, -2), B(0, -2), C(0, 3)$

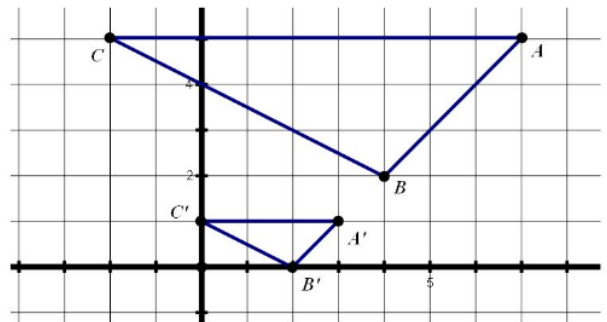
$A'(-6, -2), B'(0, -2), C'(0, 8)$

3. $D_{(3, (6,6))}ABCD$



$A'(-6, -6), B'(3, -6), C'(3, 3), D'(-6, 3)$

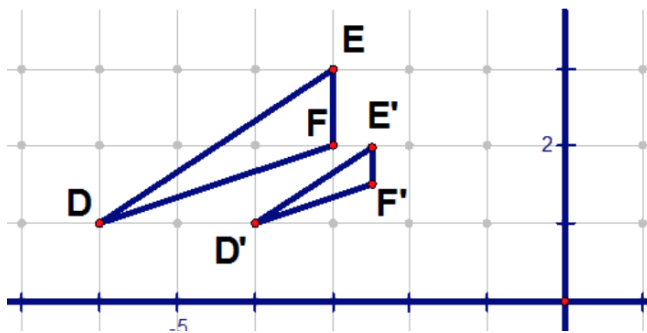
4. Find the center of dilation and scale factor. You must find the center of dilation algebraically.



Center: $(1, -1)$
 $n = 1/3$

5.

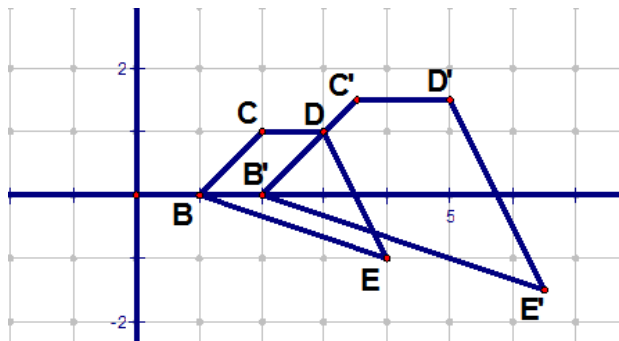
Find the center of dilation and scale factor. You must find the center of dilation algebraically.



Center: $(-2, 1)$
 $n = \frac{1}{2}$

6.

Find the center of dilation and scale factor. You must find the center of dilation algebraically.



Center: $(-1, 0)$
 $n = 1.5$