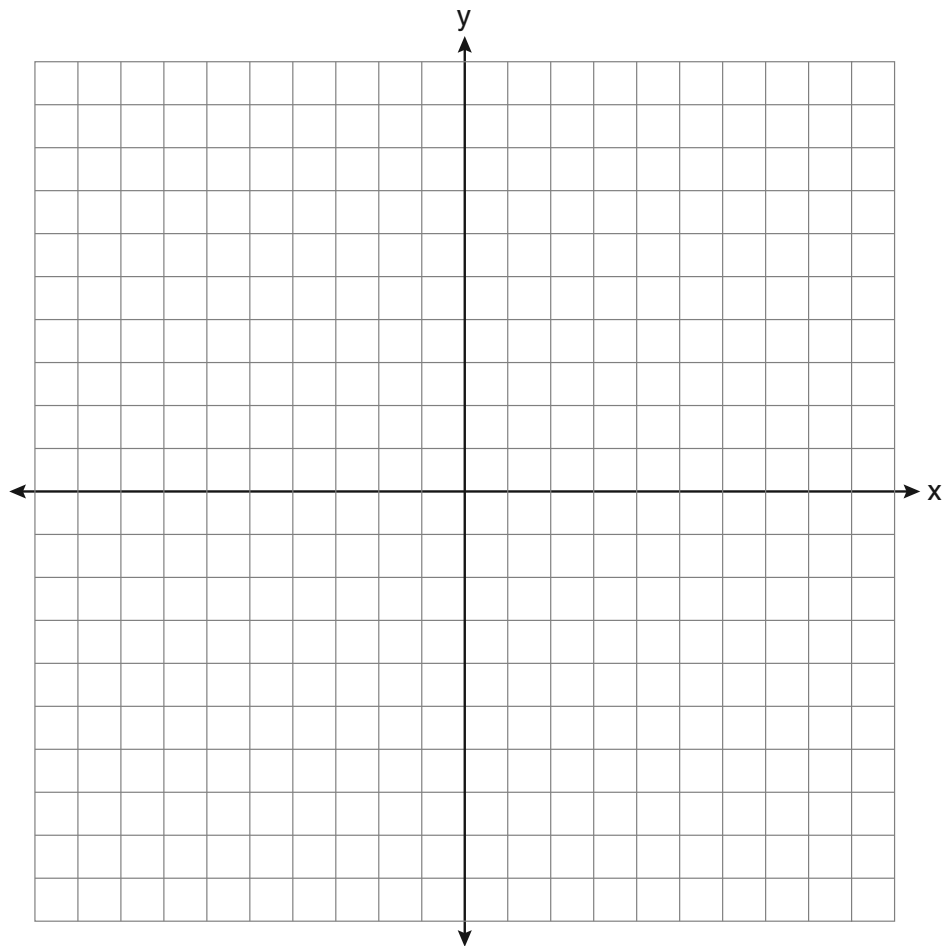


Homework

1. Triangle ABC has the vertices $A(6, -4)$, $B(8, 2)$, and $C(4, 6)$. Find the coordinates of $\triangle A''B''C''$, the image of $\triangle ABC$ under the transformation $T_{-5, -4} \circ D_{1/2}$. Graph and label both triangles.

What is the relationship of the areas of the triangles? Justify your answer.



2.

In the diagram below, $\triangle ABC$ has coordinates $A(1,1)$, $B(4,1)$, and $C(4,5)$. Graph and label $\triangle A''B''C''$, the image of $\triangle ABC$ after the translation five units to the right and two units up followed by the reflection over the line $y = 0$.

