### 8.4 Rotations Day 2

TSW understand concept of dilation
*drawing images after dilation
*find coordinates of points after dilation
*find the center of dilation

b) $\triangle A B C$ is mapped onto $\triangle A^{\prime \prime} B^{\prime \prime} C^{\prime \prime}$ by a dilation with scale factor -1 .
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$\qquad$


## Guided Practice

Copy and complete on graph paper.
(3) The management of a swimming pool built a springboard above the pool. The height of the springboard is a dilation of the depth of the pool with center at the origin, $O$, and scale factor $-\frac{1}{3}$. The depth of the pool is 4.5 meters, represented by $\overline{S T}$ on the coordinate plane. The floor is represented by the positive $x$-axis and the surface of the water is represented by the negative $x$-axis. Draw the location and height of the stand for the springboard, $\overline{U V}$, on a copy of this vertical cross section of the pool.


