8.3 Rotations Day 2

TSW understand concept of rotation
*drawing images after rotation
*find coordinates of points after rotation

## Example 12 Draw images after rotations about the origin.

Triangle $A B C$ is shown on the coordinate plane.
Draw and label the image $A^{\prime} B^{\prime} C^{\prime}$ under each rotation.
Then complete the table of coordinates.
A triangular flag $A B C$ is connected to a rotating shaft. The shaft is positioned at the origin, $O$.

| Original Point | $A(2,-1)$ | $B(4,0)$ | $C(2,0)$ |
| :--- | :---: | :---: | :---: |
| Is Mapped Onto | $A^{\prime}(?, ?)$ | $B^{\prime}(?, ?)$ | $C^{\prime}(?, ?)$ |


a) $90^{\circ}$ clockwise about the origin, O
b) $180^{\circ}$ about the origin, O

| Original Point | $A(2,-1)$ | $B(4,0)$ | $C(2,0)$ |
| :--- | :---: | :---: | :---: |
| Is Mapped Onto | $A^{\prime \prime}(?, ?)$ | $B^{\prime \prime}(?, ?)$ | $C^{\prime \prime}(?, ?)$ |



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