

Geometry

Goal: The learner will understand and use properties and relationships in geometry.

Objective:

3.03 Identify, predict, and describe dilations in the coordinate plane.

To achieve this objective, students should:

- Recognize that a transformation of the form $(x', y') = (ax, ay)$ is a dilation that enlarges or reduces the figure by a factor of “a”
- Dilate a figure in the plane and name the coordinates of the images
- Use sample notation (see notation) to describe the dilation

Notation:

$$(x', y') = (ax, ay)$$