Lesson 3: Examples of Dilations

Classwork

**Example 1**

Dilate circle$ A$, from center $O$ at the origin by scale factor $r=3.$

Exercises 1–2

1. Dilate ellipse $E$, from center $O$at the origin of the graph, with scale factor $r=2$. Use as many points as necessary to develop the dilated image of ellipse $E$.



1. What shape was the dilated image?

Exercise 3

1. Triangle $ABC$ has been dilated from center $O$ by a scale factor of $r=\frac{1}{4}$ denoted by triangle $A'B'C'$. Using a ruler, verify that it would take a scale factor of $r=4$ from center $O$ to map triangle $A'B'C'$onto triangle $ABC$.

