



# Reflections Lesson 6: Reflect on a Grid

Name \_\_\_\_\_

## Student Activity



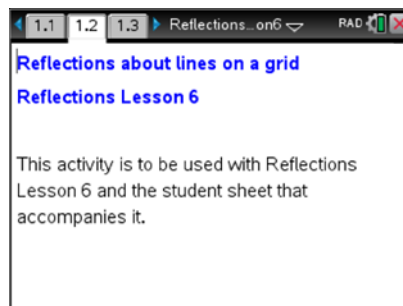
Class \_\_\_\_\_

In this lesson, you will reflect a triangle about a given line on a grid.

Open the document: *Reflections\_Lesson6.tns*.

**It is important the Reflections Tour be done before any Reflections lessons.**

PLAY INVESTIGATE EXPLORE DISCOVER



**Move to page 1.2.** ( ) Read page 1.2.

On the handheld, press and to navigate through the pages of the lesson.

On the iPad®, select the page thumbnail in the page sorter panel.

1. **Move to page 1.3.** ( ) **Reflect a triangle about the x-axis. Use a straightedge.**

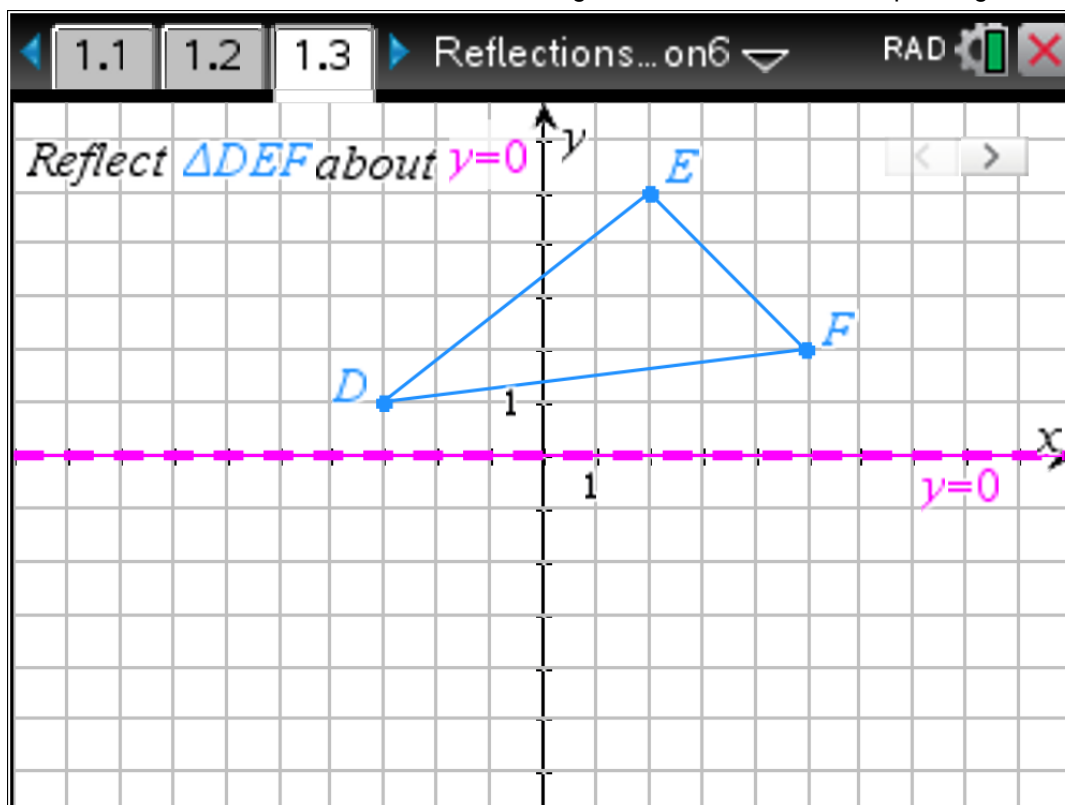
Reflect  $\triangle DEF$  about the x-axis (the line  $y = 0$ ).

Select the right arrow ( ) on the touchpad for the first step.

Read and follow the directions using the figure below.

Press the right arrow ( ) on the touchpad to advance a step and press the left arrow ( ) to go back a step, if necessary.

Label the vertices and show the three dashed segments that connect corresponding vertices.





2. Move to page 2.1. ( **ctrl** ▶ )

Reflect a triangle about the  $y$ -axis. Use a straightedge.

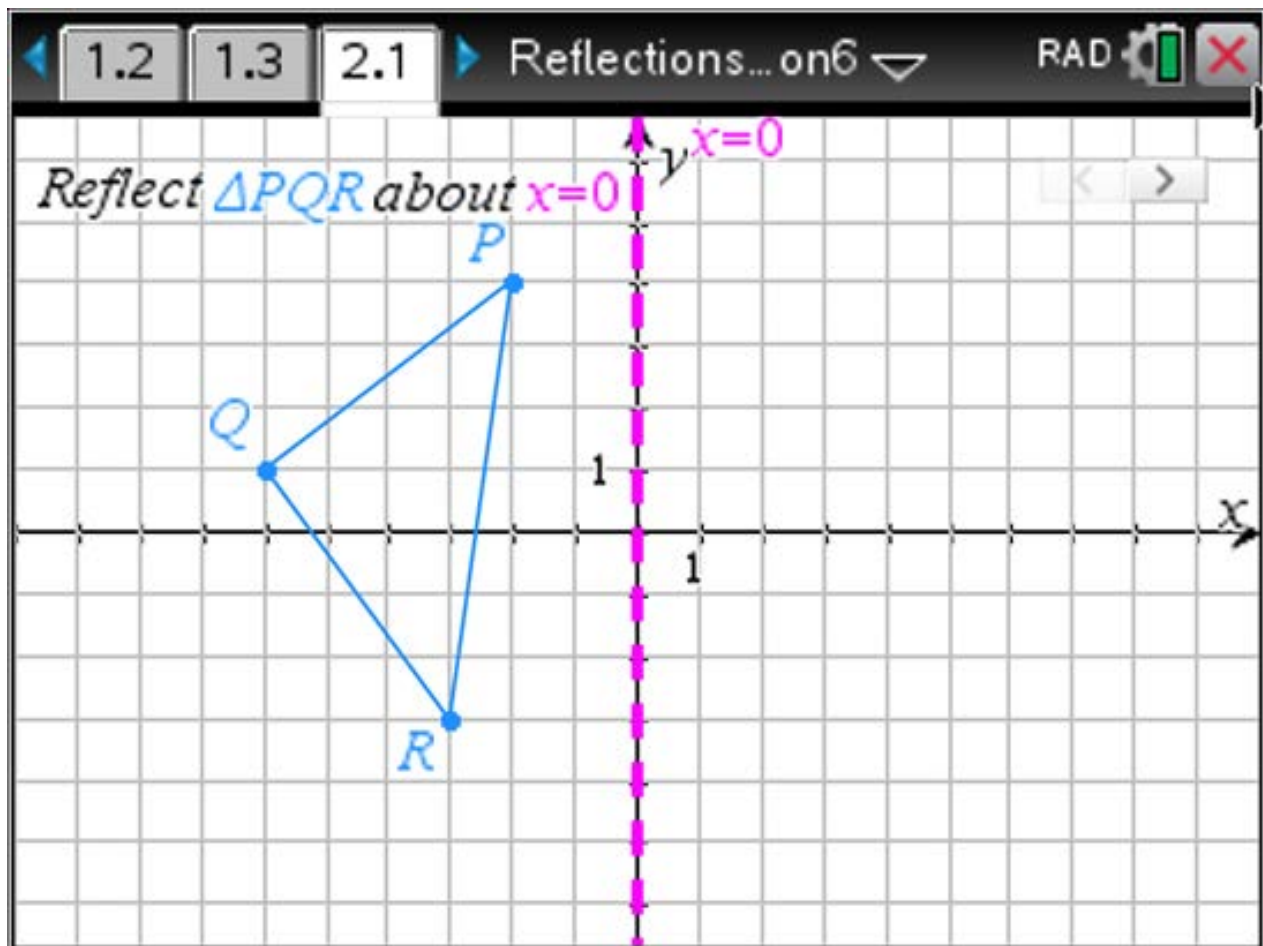
Reflect  $\triangle PQR$  about the  $y$ -axis (the line  $x = 0$ ).

Select the right arrow (▶) on the touchpad for the first step.

Read and follow the directions using the figure below.

Press the right arrow (▶) on the touchpad to advance a step and press the left arrow (◀) to go back a step, if necessary.

Label the vertices and show the three dashed segments that connect corresponding vertices.








3. Move to page 3.1. (  ) 

Reflect a triangle about the line  $y = x$ . Use a straightedge.

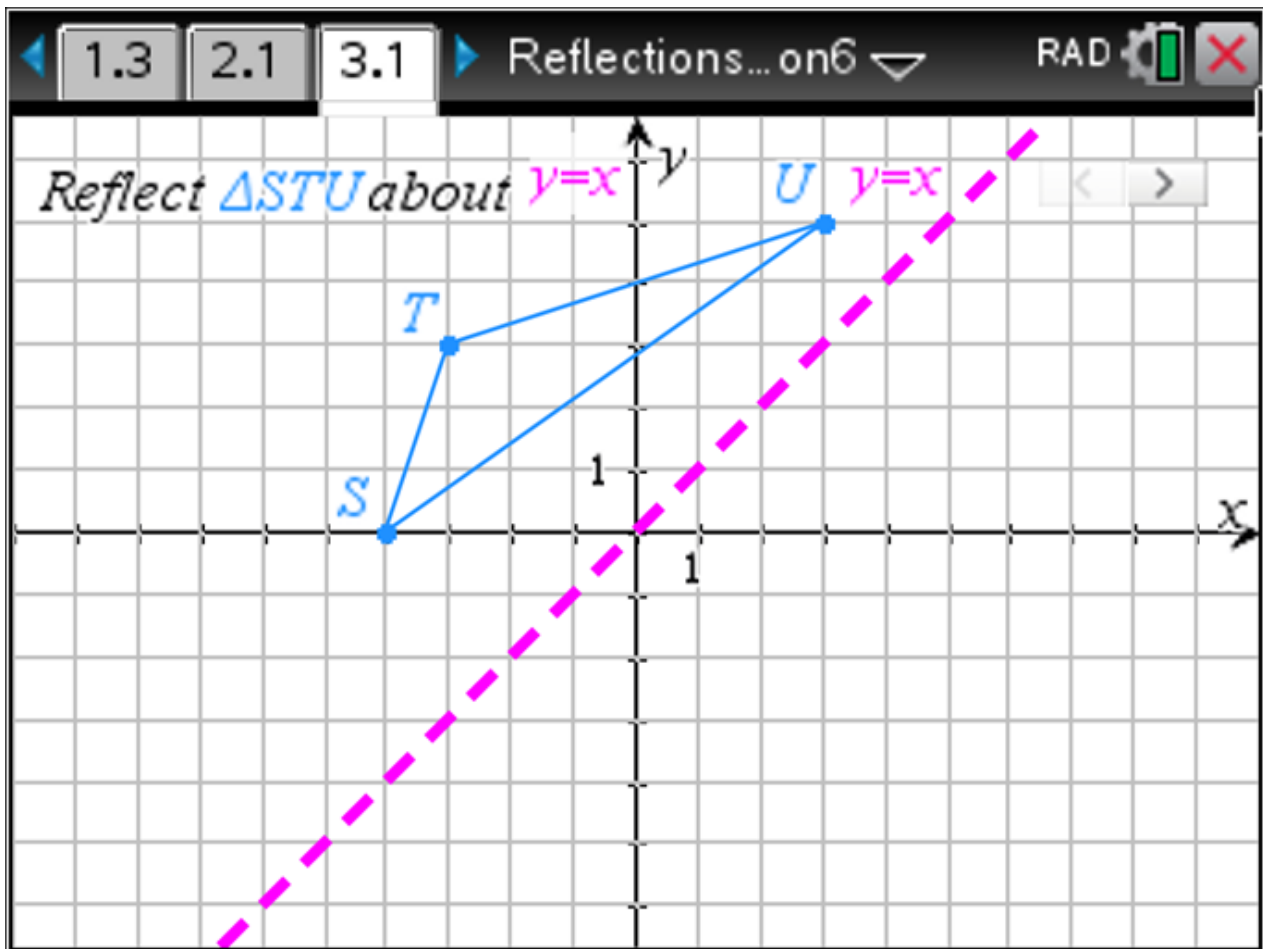
Reflect  $\triangle STU$  about the line  $y = x$ .

Select the right arrow (  ) on the touchpad for the first step.

Read and follow the directions using the figure below.

Press the right arrow (  ) on the touchpad to advance a step and press the left arrow (  ) to go back a step, if necessary.

Label the vertices and show the three dashed segments that connect corresponding vertices.





4. Move to page 4.1. ( ▶ )

Reflect a triangle about the line  $y = -2x$ . Use a straightedge.

Reflect  $\triangle XYZ$  about the line  $y = -2x$ .

Select the right arrow (▶) on the touchpad for the first step.

Read and follow the directions using the figure below.

Press the right arrow (▶) on the touchpad to advance a step and press the left arrow (◀) to go back a step, if necessary.

Label the vertices and show the three dashed segments that connect corresponding vertices.

