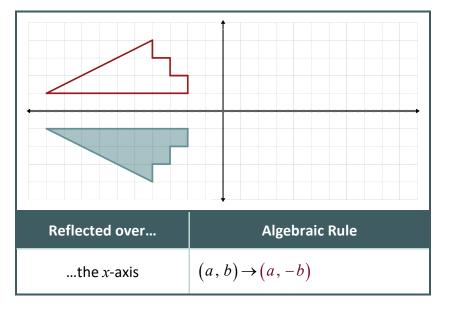
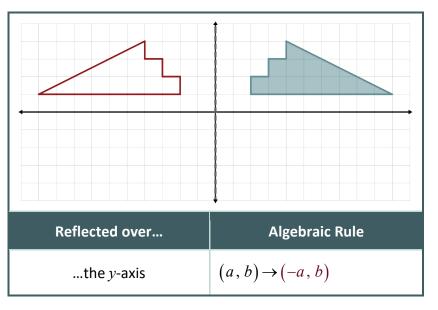
## **REFLECTIONS: GUIDED NOTES**

## Vocabulary

• <u>reflection</u>: a type of transformation that uses a *reflection line* like a mirror to create a mirror image; the figure is flipped over the *reflection line* 

## **Algebraic Rules**





## Applying Algebraic Rules

Draw the image and complete the table below for each given unshaded preimage.

| Graph | Verbal Description                                 | Algebraic Rule               |
|-------|--|------------------------------|
|       | The preimage is<br>reflected over the y-axis.      | $(x, y) \rightarrow (-x, y)$ |
|       | The preimage is reflected over the <i>x</i> -axis. | $(x, y) \rightarrow (x, -y)$ |