

EXPLORING RIBBONWORK (PART B)

Reflect Over the y -Axis

The transformation from the preimage in Quadrant I to *image 2* in Quadrant II is known as a **reflection over the y -axis**.

Preimage	Image 2	Do your best to write an algebraic rule to describe the reflection over the y -axis.
$A(1, 0)$		
$B(1, 1)$		
$C(2, 1)$		
$D(2, 2)$		
$E(3, 2)$		
$F(3, 3)$		
$G(9, 0)$		

4) Does your rule apply when *image 4* is reflected over the y -axis to get *image 3*? Explain.

5) Does your rule apply when *image 2* is reflected over the x -axis to get *image 3*? Explain.

Reflect Over the x -Axis

There must be a different rule to follow when a figure is **reflected over the x -axis**. Select any two images that are a reflection over the x -axis and complete the table below.

Image #__	Image #__	Do your best to write an algebraic rule to describe the reflection over the x -axis.

6) Does your rule apply to the other pair of reflections over the x -axis?

7) What else do you think we could reflect a figure over?