Reflections
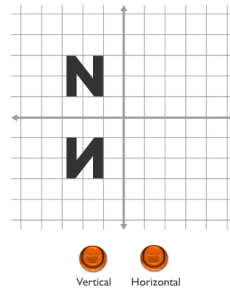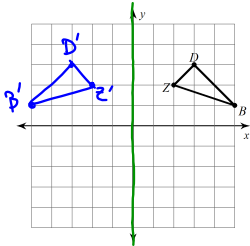
Reflection—flips a figure over a line to create a mirror image
➢ Line of reflection—the line that acts like a mirror
➢ Corresponding points are the same distance from the line.
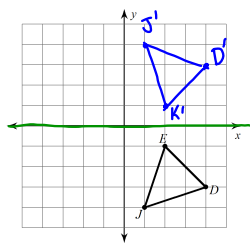
Vertical   Horizontal

Graph the reflection. Give the coordinates of D'.

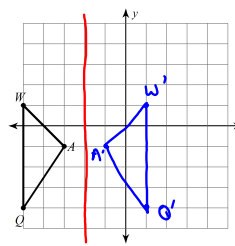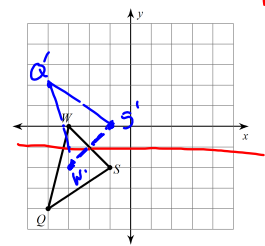reflection across the y-axis   reflection across the x-axis

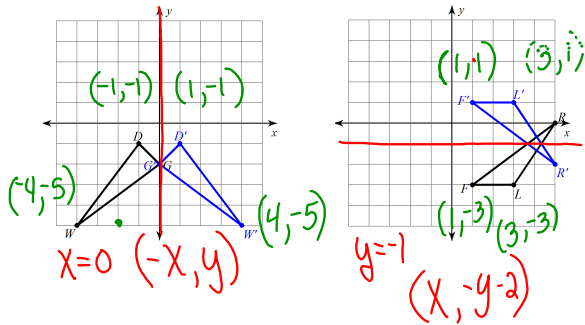Graph the reflection. Give the coordinates of Q'.

reflection across $x = -2$ Vertical   reflection across $y = -1$ Horizontal
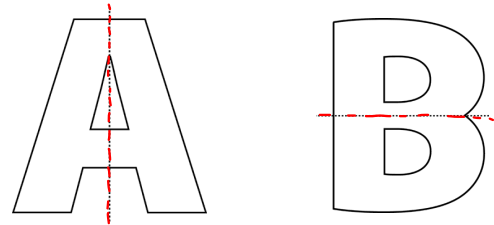
State the line of reflection. Use coordinate notation to describe the reflection.
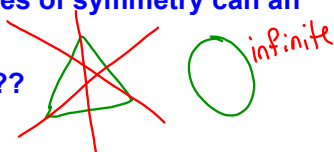
(−1,−1) (1,−1)

(−4,−5)

(4,−5)

X=0 (−X,Y)

(1,1) (3,1)

(1,−3) (3,−3)

y=−1

(X,−y−2)

Line of symmetry—a line that can be drawn on a figure so that one side of the line is a mirror image of the other side

Conclusion

1. What does a reflection do? Mirror image

2. What can you reflect over? any line

3. What is the line of symmetry? Cuts figure into 2 equal parts

4. How many lines of symmetry can an object have? infinite

5. Questions????

Assignment

Reflection Wkst