Practice 3-7

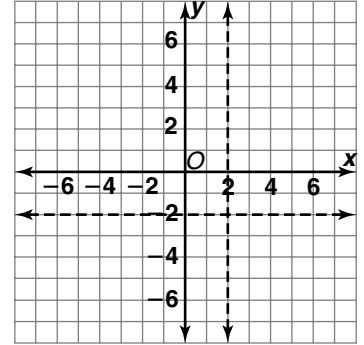**Reflections and Symmetry**

How many lines of symmetry can you find for each letter?

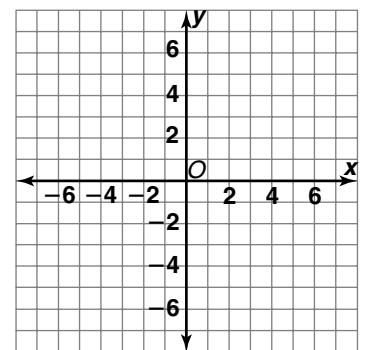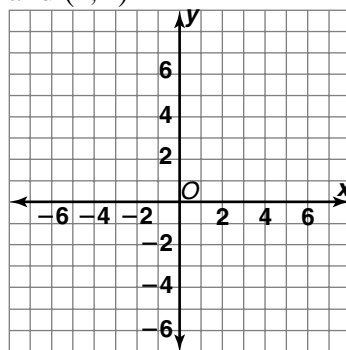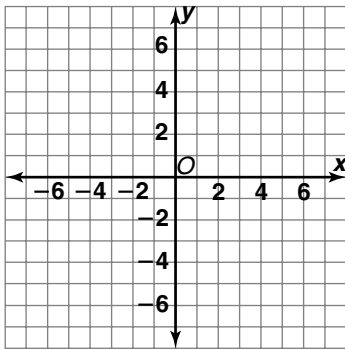**1.** W _____ **2.** X _____ **3.** H _____ **4.** T _____

Graph the given point and its image after each reflection. Name the coordinates of the reflected point.

5. $A(5, -4)$ over the
vertical dashed line

_____

6. $B(-3, 2)$ over the
horizontal dashed line

_____

7. $C(-5, 0)$ over the y-axis

_____

8. $D(3, 4)$ over the x-axis

_____

△ABC has vertices $A(2, 1)$, $B(3, -5)$, and $C(-2, 4)$. Graph △ABC and its image, △A′B′C′, after a reflection over each line. Name the coordinates of A′, B′, and C′.

9. the x-axis

_____

_____

10. the line through $(-1, 2)$
and $(1, 2)$

_____

_____

11. the y-axis

_____

_____

Fold your paper over each dashed line. Are the figures reflections of each other over the given line?

12.

_____

13.

_____

14.

_____