**Lesson 3: Reflections**

***Vocabulary***

* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** are like mirror images as seen across a line (or a point)

***I. Reflections***

1. ******Reflect the shape over the x-axis**.

2. **Reflect the shape over the y-axis.**



**When reflecting a shape over x-axis:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**When reflecting a shape over the y-axis:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Write the ordered pairs to reflect the point $(-3,7)$ and $(10, -2)$ over:

a. the y-axis🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. the x-axis 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What if we want to reflect over a line? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



4. Reflect over the line x = 1

5. Reflect over the line x = -2



6. Reflect over the line y = 2

7. Reflect over the line y = -1

8. Reflect over the line y=x



9. Reflect over the line y=-x

