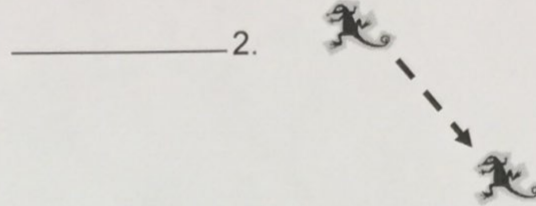
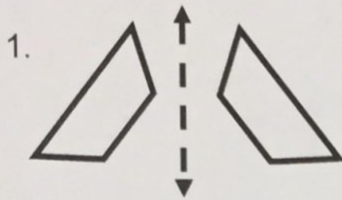


Name: \_\_\_\_\_

Date: \_\_\_\_\_

Identify each motion as a translation, reflection, or rotation.



For 3 – 4:  $\triangle XYZ \rightarrow \triangle TSR$

\_\_\_\_\_ 3. Name the image of  $\overline{XY}$ .

\_\_\_\_\_ 4. Which angle corresponds to  $\angle S$ ?

For questions 5 – 6, explain how the figure is translated. (For example, “right 2, up 3”)

\_\_\_\_\_ 5. Translating by  $\langle -3, 8 \rangle$

\_\_\_\_\_ 6. Translating a point by  $(x+6, y-5)$

For questions 7 – 12 give the coordinates of the new point.

\_\_\_\_\_ 7. **Reflect**  $(5, 6)$  across the **x-axis**.

\_\_\_\_\_ 8. **Rotate**  $(-1, 17)$  **90° clockwise** about the origin.

\_\_\_\_\_ 9. **Reflect**  $(7, -4)$  across the **y-axis**.

\_\_\_\_\_ 10. **Rotate**  $(-6, -12)$  **180°** about the origin.

\_\_\_\_\_ 11. **Rotate**  $(12, -6)$  **90° counterclockwise** about the origin.

\_\_\_\_\_ 12. **Reflect**  $(0, -12)$  across the **y-axis**.

Keep going...