Use the graph of the triangle below to answer questions 1-5.

1. Reflect the preimage over \( y = -1 \) followed by \( y = -7 \). Write the new coordinates.

2. What one transformation is this double reflection the same as?

3. What one translation would move the image back to the preimage?

4. Start over. Reflect the preimage over \( y = -7 \), then \( y = -1 \). How is this different from #1?

5. Write the rules for #1 and #4. How do they differ?

Fill in the blanks or answer the questions below.

6. Two parallel lines are 7 units apart. If you reflect a figure over both how far apart with the preimage and final image be?

7. After a double reflection over parallel lines, a preimage and its image are 28 units apart. How far apart are the parallel lines?

8. A double reflection over the x- and y- axes is the same as a ______ of ______.

9. What is the center of rotation for #17?

10. Two lines intersect at an 83\(^\circ\) angle. If a figure is reflected over both lines, how many degrees apart will the preimage and image be?

11. A preimage and its image are 244\(^\circ\) apart. If the preimage was reflected over two intersected lines, at what angle did they intersect?

12. After a double reflection over parallel lines, a preimage and its image are 62 units apart. How far apart are the parallel lines?

13. A figure is to the left of \( x=a \). If it is reflected over \( x=a \) followed by \( x=b \) and \( b>a \), then the preimage and image are ______ units apart and the image is to the ______ of the preimage.

14. Describe how this preimage is mapped onto the image using transformations.
15. Describe how this preimage is mapped onto the image using transformations.