

Geometry
Worksheet 4A

Determine the coordinates for the image after each transformation.

1. $A(-2, 4), B(5, 3)$

Reflection: over the y -axis

2. $A(4, 5), B(-2, -1)$

Reflection: over the line $y = x$

3. $A(-2, 3), B(-4, -1)$

Reflection: over the x -axis

4. $A(0, -2), B(3, 4)$

Reflection over y -axis

5. $A(-2, 3), B(-4, -5)$

Reflection: over the line $y = x$

6. $A(1, -3), B(-4, 1)$

Translation: $\langle 4, -3 \rangle$

7. $C(4, -2), D(0, 4)$

Translation: $(x, y) \rightarrow (x + 3, y - 2)$

8. $C(-2, 1), D(-3, -4)$

Reflection: over the x -axis

9. $C(0, -2), D(4, 5)$

Translation: $\langle 0, 4 \rangle$

10. $C(5, -1), D(2, 3)$

Reflection: over the y -axis

Determine the image for A(-2, 1) and B(3, 4) after each composition.

11. Reflection: over the x-axis
Translation: $\langle 4, 2 \rangle$

12. Translation: $(x, y) \rightarrow (x - 3, y - 2)$
Reflection: over the y-axis

13. Reflection: over the line $y = x$
Translation: $\langle -4, -3 \rangle$

14. Reflection: over the x-axis
Reflection: over the y-axis

15. Translation: $(x, y) \rightarrow (x, y + 5)$
Reflection: over the line $y = x$

16. Reflection: over the x-axis
Translation: $\langle 4, -3 \rangle$