

Find the coordinates of the given point after the given transformations.

1. $A(2, 2)$
Reflect across the x -axis
Rotate 180° counterclockwise about the origin
2. $A(0, 1)$
Reflect across $y = -2$
Translate 4 left & up 2
3. $A(-1, -3)$
Translate 3 right & up 6
Reflect across the y -axis
4. $A(0, -5)$
Reflect across $x = 2$
Translate 2 right & up 3
5. $A(-1, 1)$
Rotate counterclockwise 90° about the origin
Reflect across $x = 1$
6. $A(3, -4)$
Translate 4 left & 4 up
Rotate counterclockwise 270° about the origin
7. $A(3, 0)$
Translate 3 left & down 3
Reflect across $y = -1$
8. $A(-4, 5)$
Reflect across $x = -2$
Translate 3 left & down 2
9. $A(-4, 4)$
Rotate counterclockwise 180° about the origin
Reflect across the y -axis
10. $A(-3, 1)$
Rotate counterclockwise 90° about the origin
Reflect across $x = 1$
11. $A(5, -3)$
Rotate counterclockwise 180° about the origin
Translate 4 right & down 2
12. $A(-5, 1)$
Translate 8 right & 1 up
Rotate counterclockwise 270° about the origin