

Find the image (new point) given the pre-image (original point)

Given: P (1, -4)

1. translate 4 units down P' (____, ____)
2. translate 3 units up, 4 units left P' (____, ____)
3. translate 6 units right P' (____, ____)
4. translate 5 units down, 6 units right P' (____, ____)

Find the image of the given point using the following mapping rules:

Given: Q (-4, 2)

5. $(x, y) \rightarrow (x+3, y+2)$ Q' (____, ____)
6. $(x, y) \rightarrow (x, y-2)$ Q' (____, ____)
7. $(x, y) \rightarrow (x-3, y)$ Q' (____, ____)
8. $(x, y) \rightarrow (x+1, y-3)$ Q' (____, ____)
9. $(x, y) \rightarrow (-x, y)$ Q' (____, ____)
10. $(x, y) \rightarrow (x, -y)$ Q' (____, ____)

Reflect the following points over the x axis

11. P (3, -4) P' (____, ____)
12. Q (7, 1) Q' (____, ____)
13. R (0, -2) R' (____, ____)

Reflect the following points over the y axis

11. P (6, -3) P' (____, ____)
12. Q (-7, 1) Q' (____, ____)
13. R (-2, 0) R' (____, ____)
14. T (1, 4) T' (____, ____)