

Name: _____ Period: _____

Coordinates and Transformations

For each of the following lists of vertices of the pre-image, use the indicated function to find the coordinates of the vertices of the image.

1. A(1, 2), B(-2, 1), C(0,4)

$(x, y) \rightarrow (y, x)$

6. R(7, -8), S(-1, 1), T(4,4)

$(x, y) \rightarrow (y, -x)$

2. H(4, 0), K(6, -7), L(-3, 3)

$(x, y) \rightarrow (-x, -y)$

7. F(-6, -6), G(2, -7), H(3, 9)

$(x, y) \rightarrow (-y, -x)$

3. M(-4, - 6), N(-2, 5), P(9, -3)

$(x, y) \rightarrow (-y, x)$

8. N(-1, -3), D(2, -4), R(-7,0)

$(x, y) \rightarrow (x - 3, y + 4)$

4. A(-1, -2), B(2, -1), C(0,-4)

$(x, y) \rightarrow (x, -y)$

9. Z(10, -7), V(-8, 2), J(6,4)

$(x, y) \rightarrow (-y, x)$

5. D(-5, -3), E(-2, 7), F(11,-2)

$(x, y) \rightarrow (x + 4, y - 5)$

10. A(7, -2), B(5, 1), C(0, 0)

$(x, y) \rightarrow (x - 2, y - 3)$