

NAME: \_\_\_\_\_

1. Identify the coordinates of the point  $(3, 7)$  under a rotation of  $90^\circ$  clockwise about the origin.

[A]  $(-3, -7)$                       [B]  $(7, -3)$   
[C]  $(3, -7)$                       [D]  $(-3, 7)$

[1] \_\_\_\_\_

2. Identify the coordinates of the point  $(-10, 4)$  under a rotation of  $180^\circ$  clockwise about the origin.

[A]  $(10, 4)$                       [B]  $(10, -4)$   
[C]  $(-10, -4)$                   [D]  $(4, -10)$

[2] \_\_\_\_\_

3. Identify the coordinates of the point  $(-6, 5)$  under a rotation of  $180^\circ$  clockwise about the origin.

[A]  $(6, 5)$                       [B]  $(-6, -5)$   
[C]  $(5, -6)$                       [D]  $(6, -5)$

[3] \_\_\_\_\_

4. Identify the coordinates of the point  $(9, -8)$  under a rotation of  $90^\circ$  clockwise about the origin.

[A]  $(9, 8)$                       [B]  $(-9, 8)$   
[C]  $(-8, -9)$                   [D]  $(-9, -8)$

[4] \_\_\_\_\_

5. Identify the coordinates of the point  $(2, 4)$  under a rotation of  $180^\circ$  clockwise about the origin.

[A]  $(-2, 4)$                       [B]  $(2, -4)$   
[C]  $(-2, -4)$                   [D]  $(4, 2)$

[5] \_\_\_\_\_

6. Find the coordinates of the image of a triangle with vertices  $A(0, 1)$ ,  $B(-6, 0)$ , and  $C(3, -2)$  under a rotation of  $90^\circ$  counterclockwise about the origin.

[6] \_\_\_\_\_

7. Find the coordinates of the image of a triangle with vertices  $A(0, 9)$ ,  $B(-4, 0)$ , and  $C(2, 3)$  under a rotation of  $90^\circ$  clockwise about the origin.

[7] \_\_\_\_\_

8. Find the coordinates of the image of a triangle with vertices  $A(0, -6)$ ,  $B(8, 0)$ , and  $C(5, -9)$  under a rotation of  $90^\circ$  counterclockwise about the origin.

[8] \_\_\_\_\_

9. Find the coordinates of the image of a triangle with vertices  $A(0, -3)$ ,  $B(3, 0)$ , and  $C(-7, 4)$  under a rotation of  $90^\circ$  clockwise about the origin.

[9] \_\_\_\_\_

10. Find the coordinates of the image of a triangle with vertices  $A(0, 7)$ ,  $B(9, 0)$ , and  $C(-9, 1)$  under a rotation of  $90^\circ$  clockwise about the origin.

[10] \_\_\_\_\_

[1] B

[2] B

[3] D

[4] C

[5] C

[6]  $A'(-1, 0), B'(0, -6), C'(2, 3)$

[7]  $A'(9, 0), B'(0, 4), C'(3, -2)$

[8]  $A'(6, 0), B'(0, 8), C'(9, 5)$