**6.G.A.1 and 6.G.A.3** NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**POLYGONS IN THE COORDINATE PLANE #1**

1.) On the graph paper below, draw polygon ABCDEFG with vertices:

A( 1, 1 ) B( 9, 1 ) C( 9, 8 ) D( 7, 5 ) E( 4, 5 ) F( 4, 8 ) G( 1, 8 )

Connect point A to B, B to C, etc. When you get to point G, connect back to point A.

Compose and decompose the polygons into triangles and rectangles to find the area.

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What quadrant is the location of the graphed polygon? \_\_\_\_\_\_\_\_

2.) On the graph paper below, draw polygon ABCDE with vertices:

A( 3, - 3 ) B( 3, - 8 ) C( 5, - 8 ) D( 6, - 9 ) E( 6, - 3 )

Connect point A to B, B to C, etc. When you get to point E, connect back to point A.

Compose and decompose the polygons into triangles and rectangles to find the area.

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What quadrant is the location of the graphed polygon? \_\_\_\_\_\_\_\_

3.) On the graph paper below, draw polygon ABCDEF with vertices:

A( - 4, 3 ) B( - 9, 3 ) C( - 9, 7 ) D( - 7, 7 ) E( - 6, 9 ) F( - 6, 7 )

Connect point A to B, B to C, etc. When you get to point F, connect back to point A.

Compose and decompose the polygons into triangles and rectangles to find the area.

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What quadrant is the location of the graphed polygon? \_\_\_\_\_\_\_\_

4.) On the graph paper below, draw polygon ABCDEF with vertices:

A( - 3, - 2 ) B( - 3, - 9 ) C( - 8, - 9 ) D( - 6, - 5 ) E( - 8, - 5 ) F( - 8, - 2 )

Connect point A to B, B to C, etc. When you get to point F, connect back to point A.

Compose and decompose the polygons into triangles and rectangles to find the area.

Area: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ What quadrant is the location of the graphed polygon? \_\_\_\_\_\_\_\_