Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Polygons and the Coordinate Plane**

The vertices of eight polygons are given below. For each polygon:

* Plot the points in the coordinate plane connect the points in the order that they are listed.
* Color the shape the indicated color and identify the type of polygon it is.
* Find the area.

1. The first polygon is GREY and has these vertices:

(−7,4)(−8,5)(−8,6)(−7,7)(−5,7)(−5,5)(−7,4)

1. The second polygon is ORANGE and has these vertices:

(−2,−7)(−1,−4)(3,−1)(6,−7)(−2,−7)

1. The third polygon is GREEN and has these vertices:

(4,3)(3,3)(2,2)(2,1)(3,0)(4,0)(5,1)(5,2)(4,3)

1. The fourth polygon is BROWN and has these vertices:

(0,−10)(0,−8)(7,−10)(0,−10)

1. The fifth polygon is PURPLE and has these vertices:

(−8,−5)(−8,−8)(−5,−8)(−5,−5)(−8,−5)

1. The sixth polygon is PINK and has these vertices:

(9,−1)(6,1)(6,−3)(9,−1)

1. The seventh polygon is BLUE and has these vertices:

(−6,−4)(−6,1)(−9,1)(−9,−4)(−6,−4)

1. The eighth polygon is YELLOW and has these vertices:

(−5,1)(−3,−3)(−1,−2)(0,3)(−3,3)(−5,1)