Student Worksheet

Name_____   **Date**_____

Note: We do not leave enough room for copy and past activities in order to display the questions in fewer pages.

Directions:

- Use the file " Spirals.gsp" to enter the numbers.

1. Define rational numbers.

2. Define irrational numbers.

3. Enter the following rational numbers ($\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{8}$, $\frac{2}{10}$) :

1st Rational: $\frac{1}{4}$ Copy and Paste the GSP result in the space provided below:

2nd Rational: $\frac{1}{5}$ Copy and Paste the GSP result in the space provided below:

3rd Rational: $\frac{1}{8}$ Copy and Paste the GSP result in the space provided below:

4th Rational $\frac{2}{10}$ Copy and Paste the GSP result in the space provided below:

4. Enter the following irrational numbers ($\pi, e, \sqrt{2}$).

1st Irrational: e   Copy and Paste the GSP result in the space provided below:

2nd Irrational: π Copy and Paste the GSP result in the space provided below:

3rd Irrational: $\sqrt{2}$ Copy and Paste the GSP result in the space provided below:

5. Compare the sketches from questions 3 and 4, and describe the similarities and differences of each sketch focusing on rational and irrational number behaviors.