

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 ($\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{8}$, $\frac{1}{10}$):

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: $\frac{1}{10}$ Copy and Paste the GSP result in the space provided below:

4. Enter the following irrational numbers (π , 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.