**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_ Score:\_\_\_\_\_**

**U14 HWK #3** *Comparing and Ordering Real Numbers*

**Directions:** Do **not** use a calculator for the following problems. Any calculations you may need are given in the problem. Show your thinking.

1. Give an example of a rational number between
2. Give an example of an irrational number between 8 and 9.
3. Order the following numbers from **least to greatest** Use the following calculations to answer the questions below.

1. Write a number between 1.4 and .
2. Order the following numbers from **greatest to least.** Use the following approximations and calculations to answer the questions below.

π is between 3.14 and 3.15

1. Find a number between .
2. Find a number between .

The number *e* is an important irrational number. In future math classes as well as science and social science, you will see and use this number quite a bit.

1. Use the approximations of *e* and the calculations given below to answer the questions that follow.

*e* is between 2 and 3

*e* is between 2.7 and 2.8

*e* is between 2.71 and 2.72

*e* is between 2.718 and 2.719

* 1. Write a number that is between

2 and *e*.

* 1. Write a number that is between

*e* and 2.8.

* 1. Which is larger? Justify

* 1. Which is larger? Justify
  2. Which is larger? Justify
  3. Which is larger? Justify

1. Order the following numbers from **least to greatest**.

Note that and