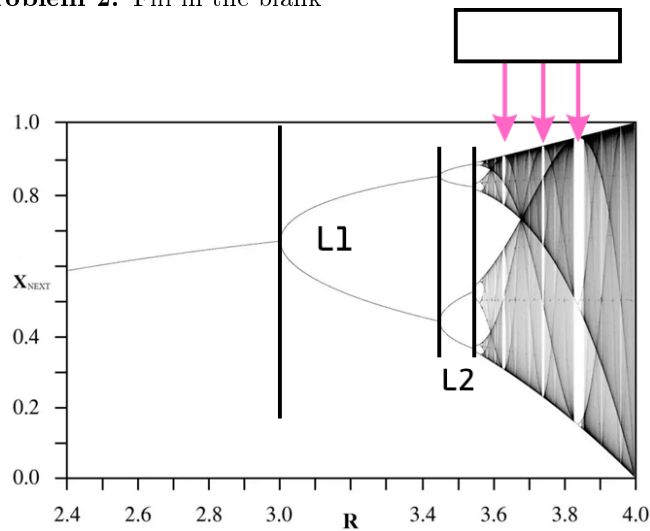


## QUIZ 5

**Problem 1.** 1. Choose the OX

- 1) Newton's Principia marked the beginning of the study of complex systems.
- 2) Reductionism is phenomena which can be discovered in terms of other simulators or more fundamental phenomena that is contrary to the nature of complex science.
- 3) Edward Lorenz discovered a chaos phenomenon through weather models that produced large differences in results even in small initial conditions.
- 4) Complex system is system composed of many components which may interact with each other.

**Problem 2.** Fill in the blank



- \_\_\_\_\_ :  $L1/L2 = L3/L4 =$
- \_\_\_\_\_ : object is exactly or approximately similar to a part of itself
- \_\_\_\_\_ : process where some form of global overall order arises from local interactions between parts of an initially disordered system

**Problem 3.** Briefly describe an example of the complex system features of the brain presented in class.

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