1. What is the meaning of what mathematicians call a "map"?

2. Why is the logisitic map $x_{i+1} = \mu x_i(1 - x_i)$ called "nonlinear"?

3. Why is the logisitic map $x_{i+1} = \mu x_i(1 - x_i)$ called "quadratic"?

4. What is meany by a "one-cycle"?

5. What is meant by a "two=cycle"?

6. What is meany by a "bifurcation diagram"?

7.