

# Growth and Relaxation:

1. What is exponential growth?
2. What is linear growth?
3. What is doubling time for exponential growth?
4. What is the growth rate for exponential growth?
5. What is relaxation in the context of mathematical modelling?
6. What is relaxation time?
7. What is logistic equation? What process does it model?
8. How do you understand linearized dynamics?
9. What is phase-plane analysis?
10. How do you understand quasi-steady state?
11. What is slow manifold?
12. Try to give general definition of auto-regulation (not based on a biological example discussed in the text).
13. In general, what equilibrium is called unattainable?