

PROBLEM SHEET 1

This problem sheet is due in by 5pm on Thursday 27 October 2022. You may submit it on Gradescope or on paper to my pigeonhole on Level 1 by the car park exit. There is a discretionary mark available for neat and legible solutions.

Topics covered: Chapters 1–2.

1. Consider the following growth model for a population $x(t)$. Known as the Gompertz model, it is given by

$$\frac{dx}{dt} = ax \log \left(\frac{K}{x} \right), \quad (1)$$

where a and K are positive constants.

- (a) Plot the phase space of this model and use this plot to determine the stability of any equilibria you find.
 - (b) Consider now the biological interpretation of this model. What do the terms in the equation represent? And how might you interpret how this model differs from the logistic model? You only need to write a sentence or two.
2. The logistic model for the evolution of a prey species with density $x(t)$ can be adapted to form

$$\frac{dx}{dt} = Rx \left(1 - \frac{x}{K} \right) - P, \quad (2)$$

where R , K and P are positive constants.

- (a) Provide a brief biological interpretation of this model.
- (b) There is a biological problem with this model at $x = 0$. What is it?

To fix this problem, consider now the more involved model,

$$\frac{dx}{dt} = Rx \left(1 - \frac{x}{K} \right) - P \left(1 - \exp \left[-\frac{x^2}{\alpha A^2} \right] \right), \quad (3)$$

where R , K , P , A and α are positive constants.

- (c) The units of x are density, the units of t are time, and α is just a number. By considering the new model, eq. (3), what, therefore, do the units of R , K , P and A have to be?
- (d) By writing

$$x = \hat{x}X, \quad t = \hat{t}T, \quad (4)$$

where \hat{x} and \hat{t} are nondimensional, show that eq. (3) can be written as

$$\frac{d\hat{x}}{d\hat{t}} = r\hat{x} \left(1 - \frac{\hat{x}}{q} \right) - \left(1 - \exp \left[-\frac{\hat{x}^2}{\alpha} \right] \right), \quad (5)$$

where you should give the values of X , T , r and q in terms of the original parameters.

Some Mathematical Questions In Biology Iii

G. S. Ladde, M. Sambandham



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