

Homework for Lecture 23 of Dr. Z.'s Dynamical Models in Biology class

Email the answers (either as .pdf file and/or .txt file) to

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by 8:00pm Monday, Dec. 8, 2025.

Subject: hw21

with an attachment hw23FirstLast.pdf and/or hw23FirstLast.txt

1. In the Maple package DMB.txt run

`ExpGenLotka(2,50);`

ten times.

↗ 5/10

In how many cases did all the sepecies survive? In how many cases was there agreement with the positive stable equilibrium points, and between the three initial conditions? 10/10 showed agreement

2. In the Maple package DMB.txt run

`ExpGenLotka(3,50);`

ten times.

↗ 2/10

In how many cases did all the sepecies survive? In how many cases was there agreement with the positive stable equilibrium points, and between the three initial conditions? 10/10 showed agreement

3. In the Maple package DMB.txt run

`ExpGenLotka(4,50);`

ten times.

↗ 0/10

In how many cases did all the sepecies survive? In how many cases was there agreement with the positive stable equilibrium points, and between the three initial conditions? 10/10 were in agreement

4. In the Maple package DMB.txt run

`ExpGenLotka(5,50);`

ten times.

↗ 0/10

In how many cases did all the sepecies survive? In how many cases was there agreement with the positive stable equilibrium points, and between the three initial conditions? 10/10 were in agreement