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

ShaloshBEkhad@gmail.com

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.

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?

2. In the Maple package DMB.txt run

```
ExpGenLotka(3,50);
```

ten times.

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?

3. In the Maple package DMB.txt run

```
ExpGenLotka(4,50);
```

ten times.

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?

4. In the Maple package DMB.txt run

```
ExpGenLotka(5,50);
```

ten times.

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?