

Solutions Manual for An Introduction to Mathematic: Biology 1e Linda Allen (All Chapters)

Answers to Selected Exercises and Supplementary Exercises

Chapter 1 Answers (* denotes supplementary exercises)

1 (b) first, nonlinear, autonomous

(d) second, nonlinear, nonautonomous

3 (b) $x_t = c_1 + c_2(-1)^t + c_3(-5)^t$

(d) $x_t = \left(\frac{2\sqrt{3}}{3}\right)^t \left[c_1 \sin\left(\frac{\pi t}{6}\right) + c_2 \cos\left(\frac{\pi t}{6}\right) \right]$

4 (a) Solution to 3 (d) $x_t = \left(\frac{2\sqrt{3}}{3}\right)^t \sqrt{3} \sin\left(\frac{\pi t}{6}\right)$

(b) Solution to 3 (b) $x_t = \frac{5}{12} + \frac{5}{8}(-1)^{t+1} + \frac{5}{24}(-5)^t$

5 (b) $x_t = c_1 2^t + c_2(-2)^t - 1 - 2t$

(d)* Solve $x_{t+1} - 5x_t = 5^{t+1}$. Solution: $x_t = c_1 5^t + t5^t$

(e)* Solve $x_{t+1} - x_t = 1 - 4t$

7 (a) $x_t = \frac{1}{\sqrt{5}}\lambda_1^{t+1} - \frac{1}{\sqrt{5}}\lambda_2^{t+1}$, where λ_1 and λ_2 are the roots of the characteristic equation, $\lambda_1 > \lambda_2$.

(b) Using the solution in (a) and the fact that $\lambda_1 > |\lambda_2|$ leads to $\lim_{t \rightarrow \infty} \frac{x_{t+1}}{x_t} = \lambda_1$.

(c)* Find the number of pairs of rabbits after one year ($t = 12$); after 5 years. The circumference of the earth is 24,902 miles. If the pairs of rabbits are lined end to end and they measure one foot in length, then, after 5 years, the pairs of rabbits would encircle the earth about 19,050 times.

8 Find the general solution, $x_t = c_1\lambda_1^t + c_2\lambda_2^t$, where $\lambda_1 > |\lambda_2|$. Then show x_{t+1}/x_t approaches λ_1 as $t \rightarrow \infty$.

10 (2) $Y(t+1) = BY(t)$, where $B = \begin{pmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \\ -b & 0 & -a & 0 \end{pmatrix}$. Show $\det(B - \lambda I) = \lambda^4 + a\lambda^2 + b$.

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**Nathaniel D. Jewell, Jagannath
Mazumdar**



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