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Homework 6 - Dynamic Model in Bio

(1) USED MAPLE - Does the work have to be shown on paper?

(2) $S_1 = 0.5$ $S_2 = 0.4$ $S_3 = 0.3$ $S_4 = 0.2$

(a)

$$P = \begin{bmatrix} \frac{1}{2} & \frac{1}{6} & \frac{1}{6} & \frac{1}{6} \\ \frac{1}{5} & \frac{2}{5} & \frac{1}{5} & \frac{1}{5} \\ \frac{7}{30} & \frac{7}{30} & \frac{3}{10} & \frac{7}{30} \\ \frac{4}{15} & \frac{4}{15} & \frac{4}{15} & \frac{1}{15} \end{bmatrix}$$

(b) $\Rightarrow$ USED MAPLE

$$\left[\frac{168}{533}, \frac{140}{533}, \frac{120}{533}, \frac{105}{533} \right]$$

$$S_1 > S_2 > S_3 > S_4$$