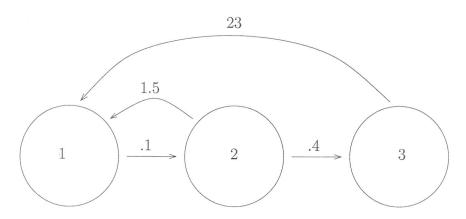
Quiz 16

Name:

You must show your work to get full credit.



For a plant that has three stages of growth and whose life history is given by the loop diagram above.

- 1. What does the number 23 mean in this context? The is averse number of offening to a stace 3 plant
- 2. What does the number .4 mean in this context.

the proposition of store 2 plants that

3. If we start with 10 in stage 1 and none in the other two stages then $A = \begin{bmatrix} 0 & 1.5 & 23 \\ 1.5 & 0.0 \\ 0.4 & 0 \end{bmatrix}$ What is proportion in Stage 1 for \vec{N}_{100} $\frac{37.36}{42.43} = .9801$ What is proportion in Stage 2 for $\vec{N}_{100} = \frac{3.65}{42.43} = .0860$ What is proportion in Stage 3 for $\vec{N}_{100} = \frac{1.42}{42.43} = .0269$

$$\vec{V}_{100} = \begin{bmatrix} 37.36 \\ 3.65 \\ 1.42 \end{bmatrix}$$

$$\vec{N}_{100} = \begin{bmatrix}
37.36 \\
3.65
\end{bmatrix}$$
What is proportion in Stage 1 for \vec{N}_{101}

$$\begin{bmatrix}
38.20 \\
43.40
\end{bmatrix} = .6801$$
What is proportion in Stage 2 for \vec{N}_{101}

$$\begin{bmatrix}
38.20 \\
43.40
\end{bmatrix} = .0862$$

$$\vec{N}_{101} = \begin{bmatrix}
38.20 \\
3.74
\end{bmatrix}$$
What is proportion in Stage 3 for \vec{N}_{101}

$$\begin{bmatrix}
1.46 \\
43.40
\end{bmatrix} = .0336$$
What is proportion in Stage 3 for \vec{N}_{101}

$$\begin{bmatrix}
1.46 \\
43.40
\end{bmatrix} = .0336$$