An justect that lives 3 years has a life history given by the loop chagram Then the Leslie matrix is $A = \begin{bmatrix} 0 & 6 & 2 \\ .2 & 0 & 0 \\ 0 & .05 & 0 \end{bmatrix}$ Then the Leslie matrix is $A = \begin{bmatrix} 0 & 6 & 2 \\ .2 & 0 & 0 \\ 0 & .05 & 0 \end{bmatrix}$ If we start with $\vec{n}'(0) = \vec{B} = \begin{bmatrix} 1000 \\ 0 \\ 0 \end{bmatrix}$ $12) \text{ Find } \vec{n}'(30) \text{ and the percent in each stage.}$ $\vec{n}''(70) = [A]^{3} \cdot (B) = \begin{bmatrix} 1573.22 \\ 60.20 \\ 13.07 \end{bmatrix}$ Then the Leslie matrix is $\vec{n}''(70) = \vec{b} \cdot \vec{a} \cdot \vec{b} = \begin{bmatrix} 1000 \\ 0 \\ 0 \end{bmatrix}$ $\vec{n}''(70) = [A]^{3} \cdot (B) = \begin{bmatrix} 1573.22 \\ 60.20 \\ 13.07 \end{bmatrix}$ Then the Leslie matrix is $\vec{n}''(70) = \vec{b} \cdot \vec{a} \cdot \vec{b} = \begin{bmatrix} 1000 \\ 0 \\ 0 \end{bmatrix}$ $\vec{n}''(70) = [A]^{3} \cdot (B) = \begin{bmatrix} 1573.22 \\ 60.20 \\ 13.07 \end{bmatrix}$ Then the Leslie matrix is $\vec{n}''(70) = \vec{b} \cdot \vec{a} \cdot \vec{b} = \begin{bmatrix} 1000 \\ 0 \\ 0 \end{bmatrix}$ $\vec{n}''(70) = [A]^{3} \cdot (B) = \begin{bmatrix} 1573.22 \\ 60.20 \\ 13.07 \end{bmatrix}$ Then the Leslie matrix is $\vec{n}''(70) = \vec{b} \cdot \vec{b} = \begin{bmatrix} 1573.22 \\ 60.20 \\ 13.07 \end{bmatrix}$ Then the Leslie matrix is $\vec{n}''(70) = \vec{b} \cdot \vec{b} = \begin{bmatrix} 1573.22 \\ 60.20 \\ 13.07 \end{bmatrix}$ Then the Leslie matrix is $\vec{n}''(70) = \vec{b} \cdot \vec{b} = \begin{bmatrix} 1573.22 \\ 13.07 \end{bmatrix}$ Then the Leslie matrix is $\vec{n}''(70) = \vec{b} \cdot \vec{b} = \begin{bmatrix} 1000 \\ 0 \\ 0 \end{bmatrix}$ Then the Leslie matrix is $\vec{n}''(70) = \vec{b} \cdot \vec{b} = \begin{bmatrix} 1000 \\ 0 \end{bmatrix}$	Qu12 18	
Then the Leslie matrix is $A = \begin{bmatrix} 0 & 6 & 2 \\ .2 & 0 & 0 \\ 0 & .05 & 0 \end{bmatrix}$ If we start with $\vec{n}(0) = \vec{B} = \begin{bmatrix} 100 \\ 0 \end{bmatrix}$ $[a] \text{ Find } \vec{n}(30) \text{ and the percent in each } 3 + age.$ $\vec{n}(30) = [A]^{3} \cdot 30 \cdot [B] = \begin{bmatrix} 1573.22 \\ 60.20 \\ 13.07 \end{bmatrix}$ Yo in stage $2 = 3.70/6$ Yo in stage $2 = 3.70/6$ Yo in stage $3 = 0.80/6$ (b) some for $\vec{n}(40) = [A]^{4} \cdot 0.5B = [204.35]$	has a life histo	ny given by
$A = \begin{bmatrix} 0 & 6 & 2 \\ .2 & 0 & 0 \\ 0 & .05 & 0 \end{bmatrix}$ If we start with $\vec{n}(0) = \vec{B} = \begin{bmatrix} 100 \\ 0 \end{bmatrix}$ $1a) \text{ Find } \vec{n}(30) \text{ and the percent in each}$ $3 + u \leq 0.$ $\vec{n}(30) = [A]^{3} \cdot 30 \cdot [B] = \begin{bmatrix} 1573.22 \\ 60.20 \\ 13.07 \end{bmatrix}$ $40 \text{ in } 4 + 020 = \begin{bmatrix} 1573.22 \\ 60.20 \\ 13.07 \end{bmatrix}$ $40 \text{ in } 4 + 020 = \begin{bmatrix} 95.50/6 \\ 90 \text{ in } 4 + 020 = \begin{bmatrix} 37.50/6 \\ 90 \text{ in } 4 + 020 =$	D-02>2 :03	- 73
IF we start with $\vec{n}[0] = \vec{B} = \begin{bmatrix} 100 \\ 0 \end{bmatrix}$ 1a) Find $\vec{n}[30]$ and the percent in each stage. $ \vec{n}[30] = [A]^30 [B] = \begin{bmatrix} 1573.22 \\ 60.20 \\ 13.07 \end{bmatrix} $ 40 in stage $2 = 3.706$ 20 in stage $2 = 3.706$ 20 in stage $3 = 0806$ b) some for $\vec{n}[40]$ $ \vec{n}[40] = [A]^40 [B] = \begin{bmatrix} 204.35 \\ 201.45 \end{bmatrix} = 94.406$ $ \vec{n}[40] = [A]^40 [B] = \begin{bmatrix} 204.35 \\ 204.35 \end{bmatrix} = 96 [4] = 94.896$		matrix is
IF we start with $\vec{n}(0) = \vec{B} = 0$ 1a) Find $\vec{n}(30)$ and the percent in each stage. $\vec{n}(30) = [A]^30 [B] = \begin{bmatrix} 1573.22 \\ 60.20 \\ 13.07 \end{bmatrix}$ Yo in stage = 3.70/6 Yo me for $\vec{n}(40)$ $\vec{n}(40) = [A]^40 [B] = \begin{bmatrix} 3986.14 \\ 204.35 \end{bmatrix}$ Yo in 2 = 4.89/6	A = \ \ .2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	[100]
$ \sqrt[3]{(30)} = [A]^{30} [B] = [60, 20] $ $ \sqrt[3]{(30)} = [A]^{30} [B] = [60, 20] $ $ \sqrt[3]{(30)} = [A]^{30} [B] = [40, 20] $ $ \sqrt[3]{(30)} = [A]^{30} [B] = [40, 20] $ $ \sqrt[3]{(30)} = [A]^{30} [B] = [40, 20] $ $ \sqrt[3]{(40)} = [A]^{30} [B] = [204,35] $	If we start with i	
$ \bar{n}^{7}(30) = [A]^{30}[B] = 60 * 20 $ $ 90 \text{ in } 940201 = 95.50/6 $ $ 90 \text{ in } 940202 = 3.70/6 $ $ 90 \text{ in } 940202 = 3.70/6 $ $ 90 \text{ in } 940202 = 3.70/6 $ $ 90 \text{ in } 940202 = 3.70/6 $ $ 90 \text{ in } 940202 = 3.70/6 $ $ 90 \text{ in } 940202 = 3.70/6 $ $ 90 \text{ in } 940202 = 3.70/6 $ $ 90 \text{ in } 940202 = 94.90/6 $ $ 70 \text{ in } 940202 = 94.90/6 $ $ 70 \text{ in } 940202 = 94.90/6 $ $ 70 \text{ in } 940202 = 94.90/6 $	stuge.	
90 in stage $2 = 3.706$ 90 in stage $3 = 0.0806$ b) Some for $\sqrt{140}$ $\sqrt{3986.14}$ 00 in $1 = 94.406$ $\sqrt{140} = 1474018 = 204.35 = 90 in 2 = 4.806$	$\overline{\eta}^{2}(30) = [A]^{30}[B] =$	60,20 13,07
57(40) = [A] 40[B] = 204.35 90 14 2 = 4.8%	% in stage 2 =	3.706
	36	204.35 90142 = 4.8%