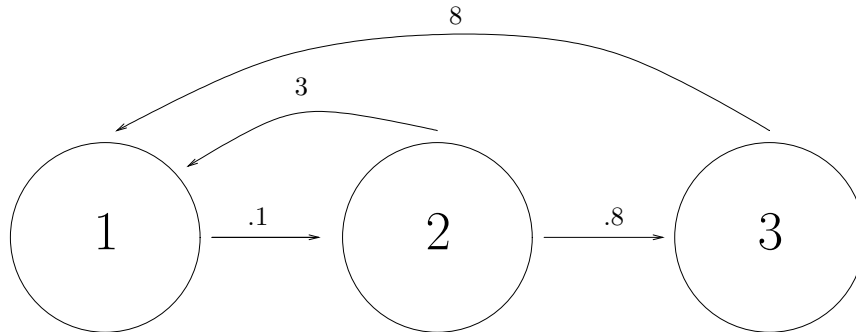


Homework assigned Friday, October 1

Problem 1:

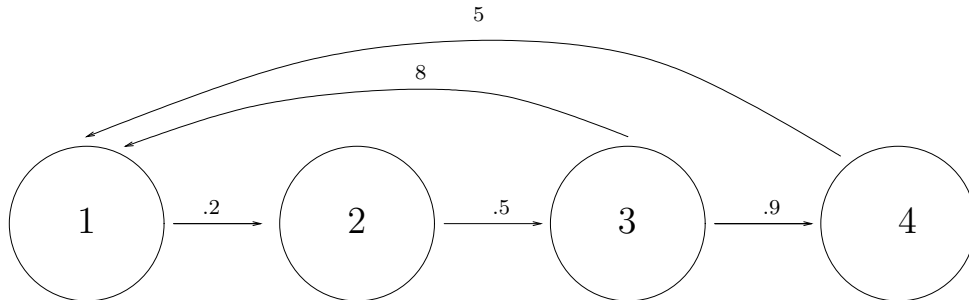


For the structured age growth in the figure above, complete the following

table:

$x \setminus t$	0	1	2	3
1	100			
2	10			
3	8			

- (a) When $t = 1$ what percent of the population is in stage 1? What percent is in stage 2? What percent is in stage 3?
- (b) When $t = 2$ what percent of the population is in stage 1? What percent is in stage 2? What percent is in stage 3?

Problem 2

For the last figure complete the table:

$x \backslash t$	0	1	2
1	1,000		
2	200		
3	100		
4	40		

- (a) When $t = 1$ what percent of the population is in stage 1? What percent is in stage 2? What percent is in stage 3?, What percent is in stage 4?

Answer for problem 1.

$x \backslash t$	0	1	2	3
1	100	94	94	92.2
2	10	10	9.4	9.4
3	8	8	8	7.52

When $t = 1$, the total population is $94 + 10 + 8 = 112$. Of these 94 are in stage 1 and 94 is 95.12% of 112. There are 10 in stage 2, which is 8.93% of 112, and there are 8 in stage 3, which is 7.1429% of 112.

When $t = 2$ the percents are total is $94 + 9.4 + 8 = 111.4$ and the percents are 84.38%, 8.44%, and 7.18%.