Shusnom Gueza Classmate
Date
Page (80749 Q2 PL a) Xo = 1 " (1 couple) or 1 mile 2 pm = {0,1,2} mle child Xn populati of rate children in  $X_{n+1} = Z_1 + Z_2 = Z_n$ a, = 0.1 a, = 0.4 a, = 0.5 ×0.6 ×0.6 ×0.6 =0.06 ×0.24 = 0.3

The Intiti prob. = d dm = ao + a, dm - + a 2 (dm - ,) 1. d = 0.06 + 0.24 d + 0.3 d<sup>2</sup> 0.3 d<sup>2</sup> - 0.76 d + 0.06 = 0 d= 0.2.48, 0.08 Saturation prob = 0.08 | survival prob = 1-0.08 = 0.92



d m = a o + a, d m - + a 2 (d)

00=0.1x08 0,204x08 =0.4 =0-08 0,20-3x68=0.4

day to the

0.00

Mentiday = 0.08×1+ 0.32×1 20×1

· 0 8

P(surviva) = 1-0.8 = 0.2