Attendance Quiz for Lecture 9 of Dr. Z.'s Dynamical Models in Biology class

Name: (print!)

Email: (print!)

- 1.: A gambler hits a **fair** casino, where the maximuam gain is 100 dollars, with 30 dollars, and must leave as soon as he either made 100 dollars or got broke.
- (i) How likely is he to exit with 100 dollars?
- (ii) How many rounds should he expect to play before he has to leave the casino?

2. Solve the bounary-value linear-recurrence equation problem

$$a(n+2) = a(n+1) - \frac{3}{16}a(n)$$
,

valid in $0 \le n \le L - 2$, subject to the bounardy conditions:

$$a(0) = 0$$
 , $a(L) = 1$.