

Attendance Question: Who made the recurrence  $kx(1-x)$ . ~ Henri Poincaré  
 What math journal was this published in his seminal paper, who is the editor?  
 How old is the editor now?

$$f(x) = 2x(1-x)$$

$n$		
0	0.5	0.4
1	0.5	0.48
2	0.5	0.499...

$$2x(1-x) - x = 0$$

$$x(1-x) = 0$$

$$x = 1/2, 0$$

Given any function  $f(x)$

Non-linear differential  $x_n = f(x_{n-1})$   
 Equilibrium point solutions  $f(x) = x$

Attendance question 2: Find eq. point for  $f(x) = 10x(1-x) = 0$   
 $f'(x) = x = 0, 1$