Name:	UIN:	Section:	Score:
	(This quiz is just for pro	actice.)	

Calculate x for the first three time steps of the following initial value problem using Euler's method and a time step of $\Delta t = 0.1$ seconds:

Euler's method
$$x(t + \Delta t) = x(t) + \Delta t \cdot f(x)$$
 Where $f(x) = \dot{x}$

$$3\dot{x} = 2x^2 - x$$

$$x(0) = -1$$

t	X	χ̈́
0	-1	1
0.1	-0.9	0.84
0.2	-0.816	0.716
0.3	-0.7444	