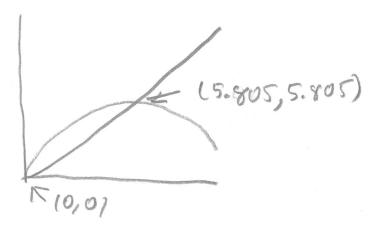
Name:

You must show your work to get full credit.

Consider a discrete dynamical system

$$N_{t+1} = 2.4N_t \left(1 - \frac{(N_t)^{\cdot 8}}{7}\right).$$

1. Plot the functions $y = 2.4x \left(1 - \frac{x^8}{7}\right)$ and y = x on the same graph with $0 \le x \le 11$ and make a rough sketch of the result here:



2. What are the equilibrium points?

To And the other use 2nd calc intersect to set 5.905

3. Which of the equilibrium points are stable?

The stable equilibrium points are: 5.801

Use 2nd calc dy/dx at X=5,805 to

set do = -12 50 | do | = 012 < 1 5 tobble

4. Which of the equilibrium points are unstable?

The unstable equilibrium points are: