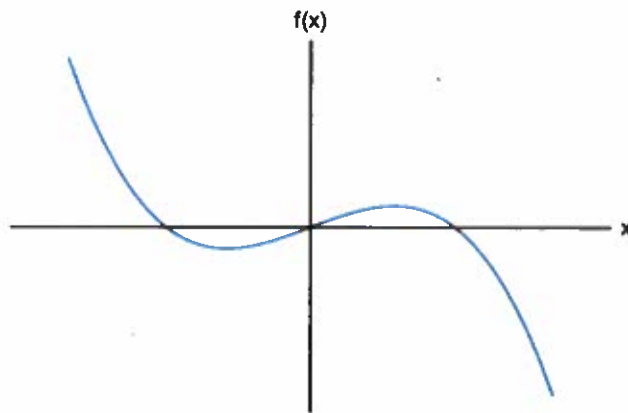


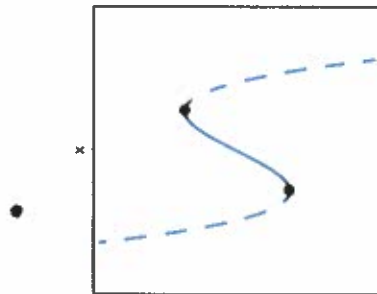
Problem 1. Consider the function plotted below:



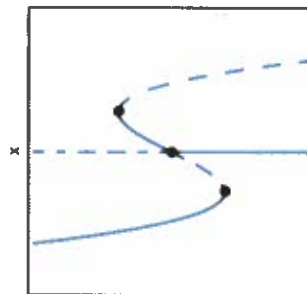
Match the following dynamical systems with their corresponding bifurcation diagrams plotted below.

1. $\dot{x} = f(x) + \mu$ (c)

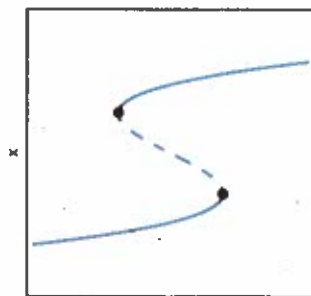
2. $\dot{x} = x(f(x) + \mu)$ (d)



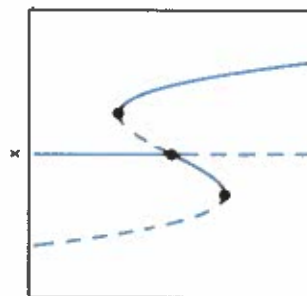
(a)



(b)



(c)



(d)