Name	$M\sharp$

1. Numerically solve and plot (in phase space and separately) a solution of

$$x' = -y - z$$
$$y' = x + a\,y$$
$$z' = b + z(x - c)$$

with $a = b = 0.2$ and $c = 5.7$. Describe the solution in words. Show your code and plots.

2. Repeat Q1 with with $a = b = 0.1$ and $c = 14.0$. Describe the solution in words. Show your code and plots.

3. Repeat Q1 with with $a = b = 0.1$ and $c = 5.0$. Describe the solution in words. Show your code and plots.