

Real Quiz 10 of Dr. Z.'s Dynamical Models in Biology class

Name: (print!)

Email: (print!)

1. By hand solve the system

$$\frac{dx}{dt} = -x - y \quad , \quad \frac{dy}{dt} = x + y \quad , \quad x(0) = 1 \quad , \quad y(0) = 1 \quad .$$

Plot, by hand, the phase-plane diagram.