

Math 3280 Worksheet 30: oscillating first-order systems

Group members (2 to 4): _____

(1) Solve the initial value problem

$$x_1' = -3x_1 + 4x_2$$

$$x_2' = -4x_1 - 3x_2$$

$$x_1(0) = 1$$

$$x_2(0) = 2.$$