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Student Solutions Manual for \Design of nonlinear control systems :::\" 4 Chapter 1 Exercise 1.2 The behavior of a dynamical system is described by the equation $\dot{x}(2) + 1:5x(1) + 0:5x + f_2x^2 + [x(1)]^2g_1=2 = 0$: (1) Determine the region of x , such that $X = 0$ is an exponentially stable equilibrium point of the given system. Solution. Denote $x_1 = x$; $x_2 = x(1)$, and $X = [x_1;x_2]^T$. Hence, we have