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Exercises in Nonlinear Control Systems

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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 $\dot{x}_2 + 1.5x_1 + 0.5x_2 + [x_1]^2 g_1 = 2 = 0$: (1) Determine the region of \mathbb{R}^2 , such that $X = 0$ is an exponentially stable equilibrium point of the given system. Solution. Denote $x_1 = x$; $x_2 = \dot{x}(1)$, and $X = [x_1; x_2]^T$. Hence, we have

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