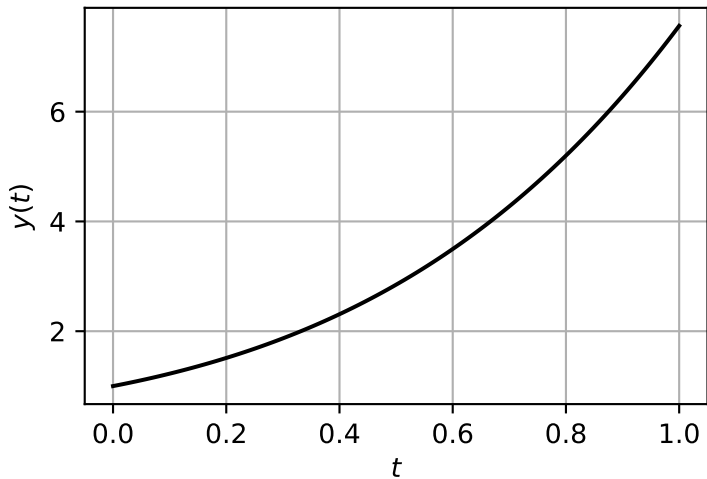
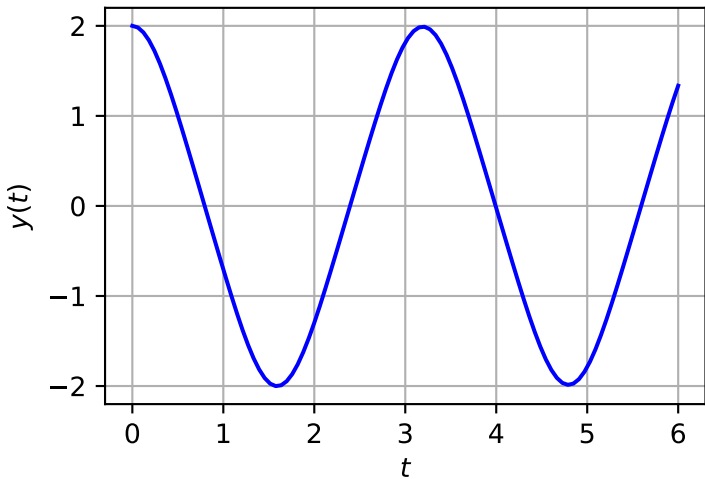


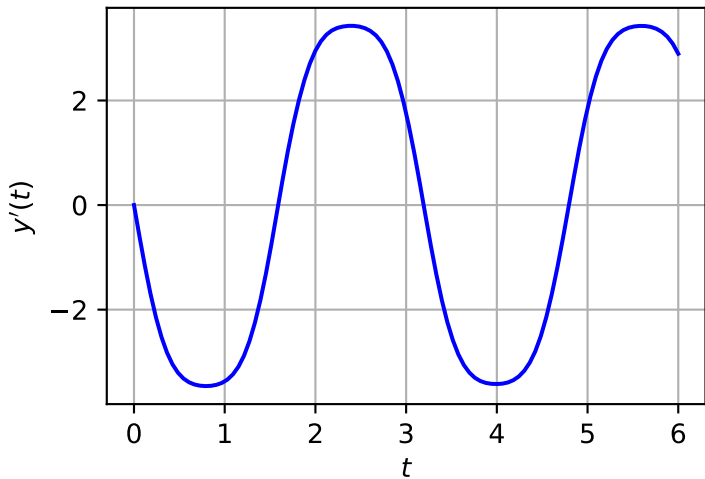
Problem 7.1(a)



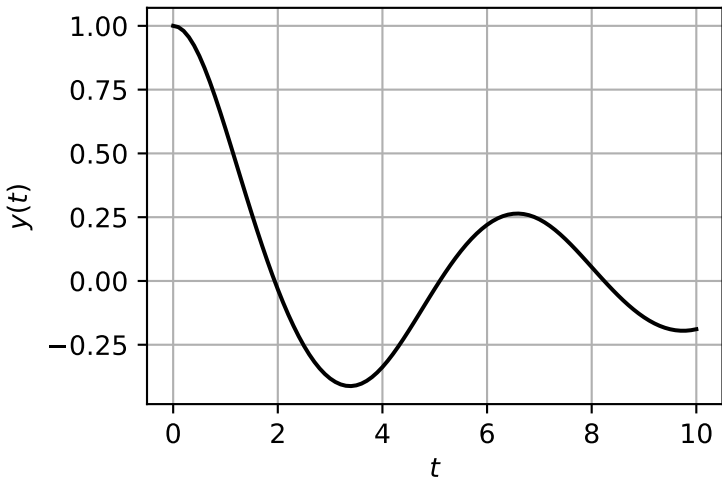
Problem 7.1(b)



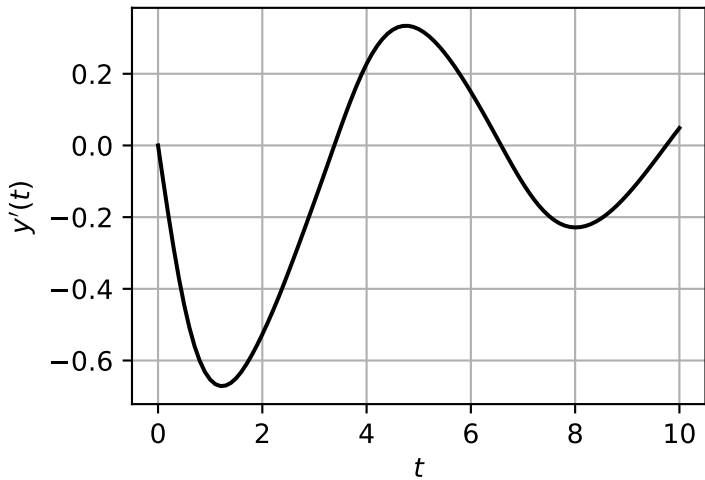
Problem 7.1(b)



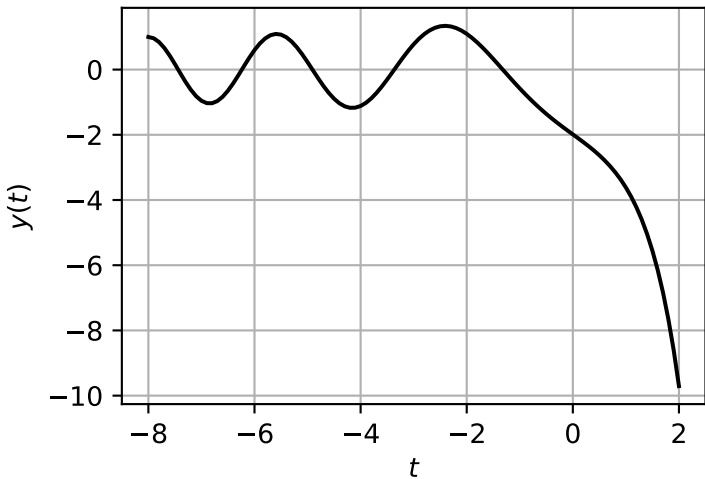
Problem 7.1(c)



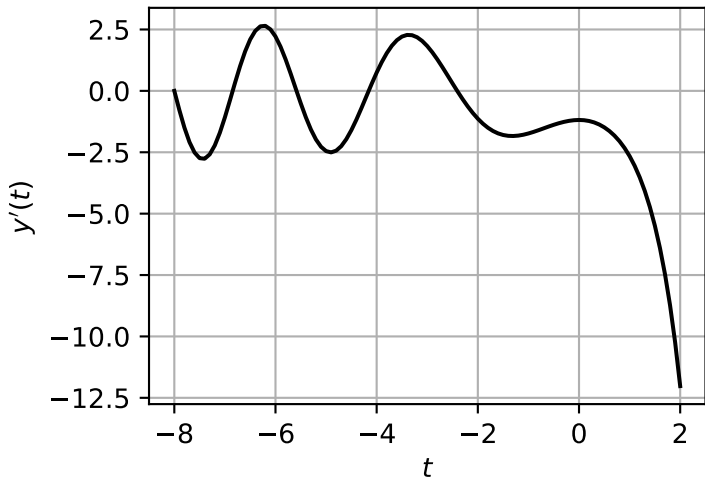
Problem 7.1(c)



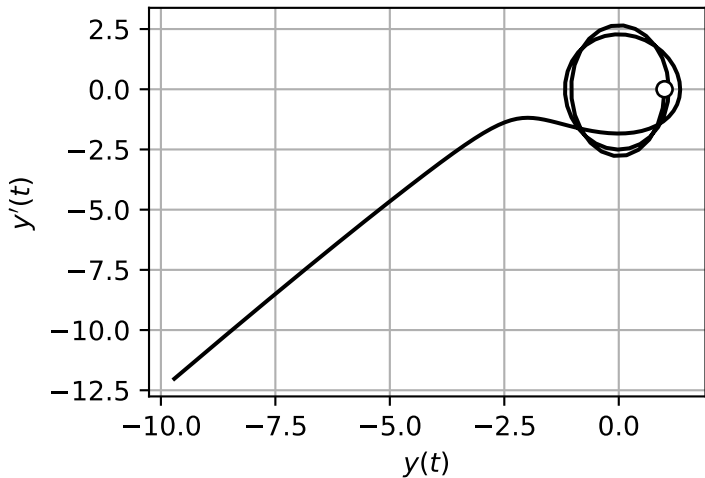
Problem 7.2(a)



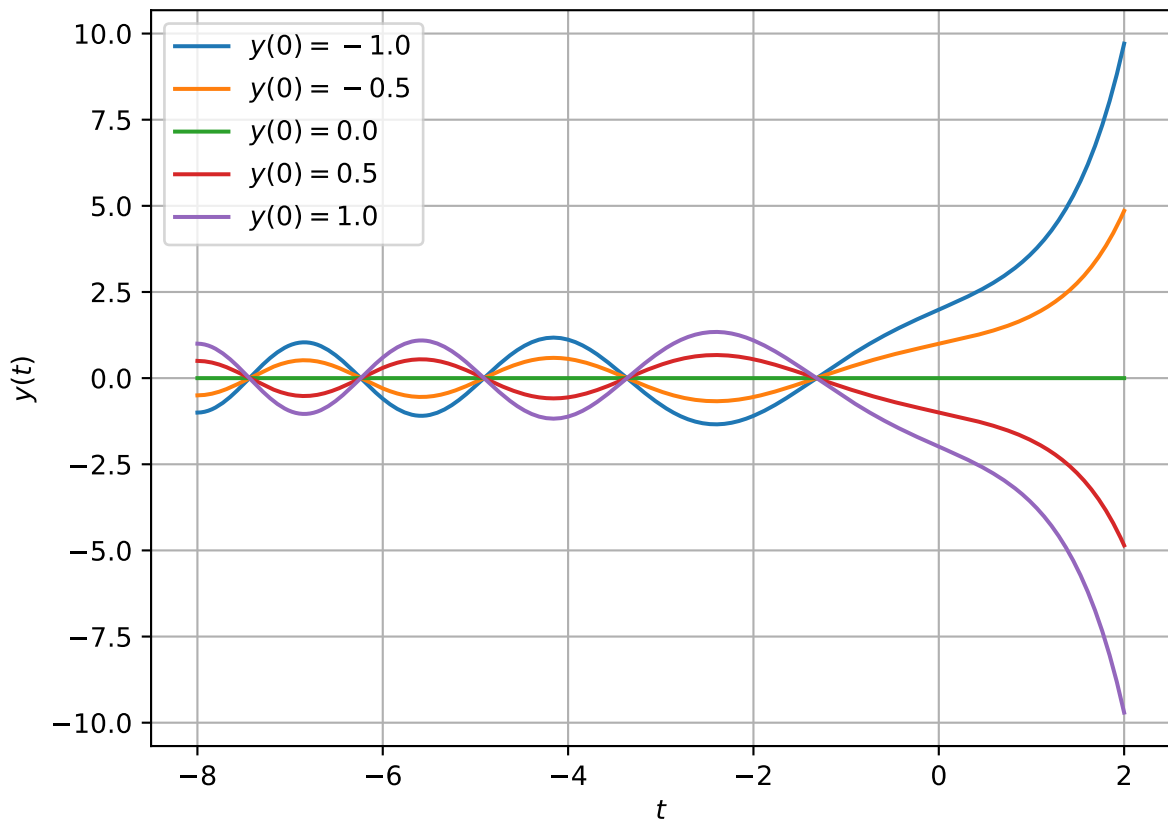
Problem 7.2(a)



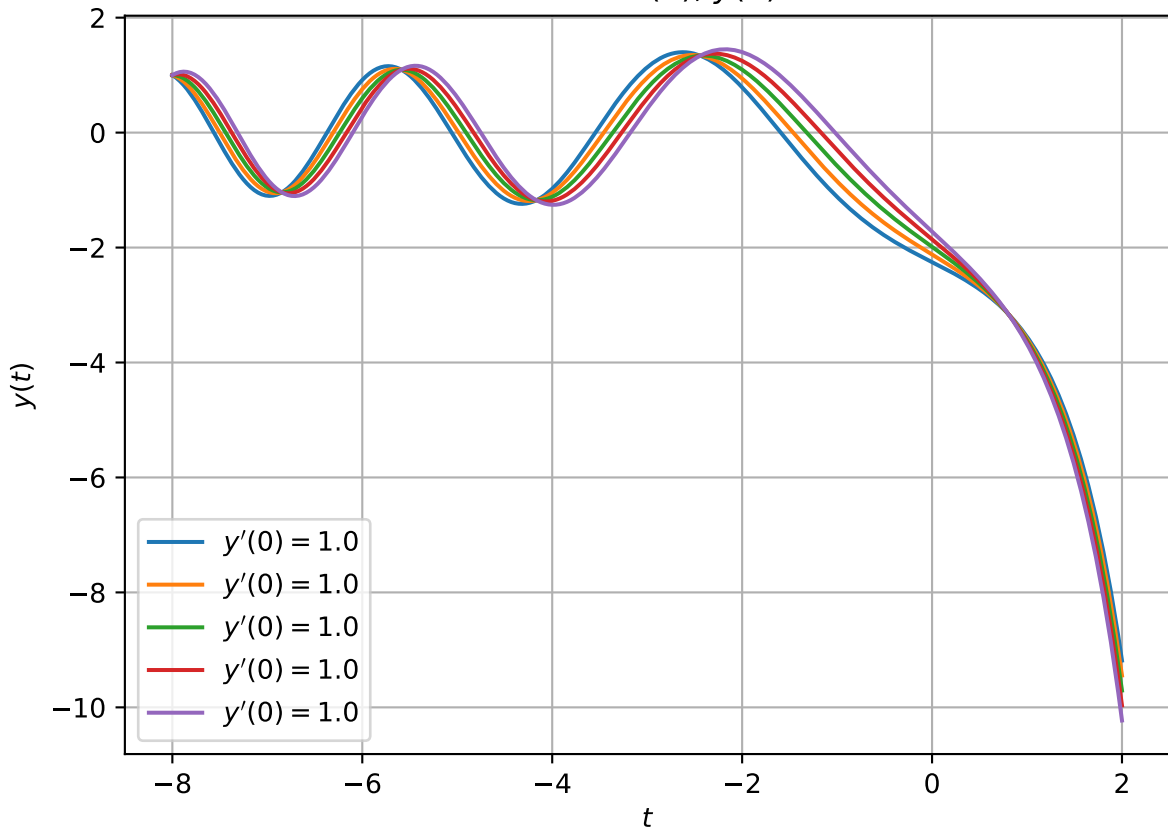
Problem 7.2(a)



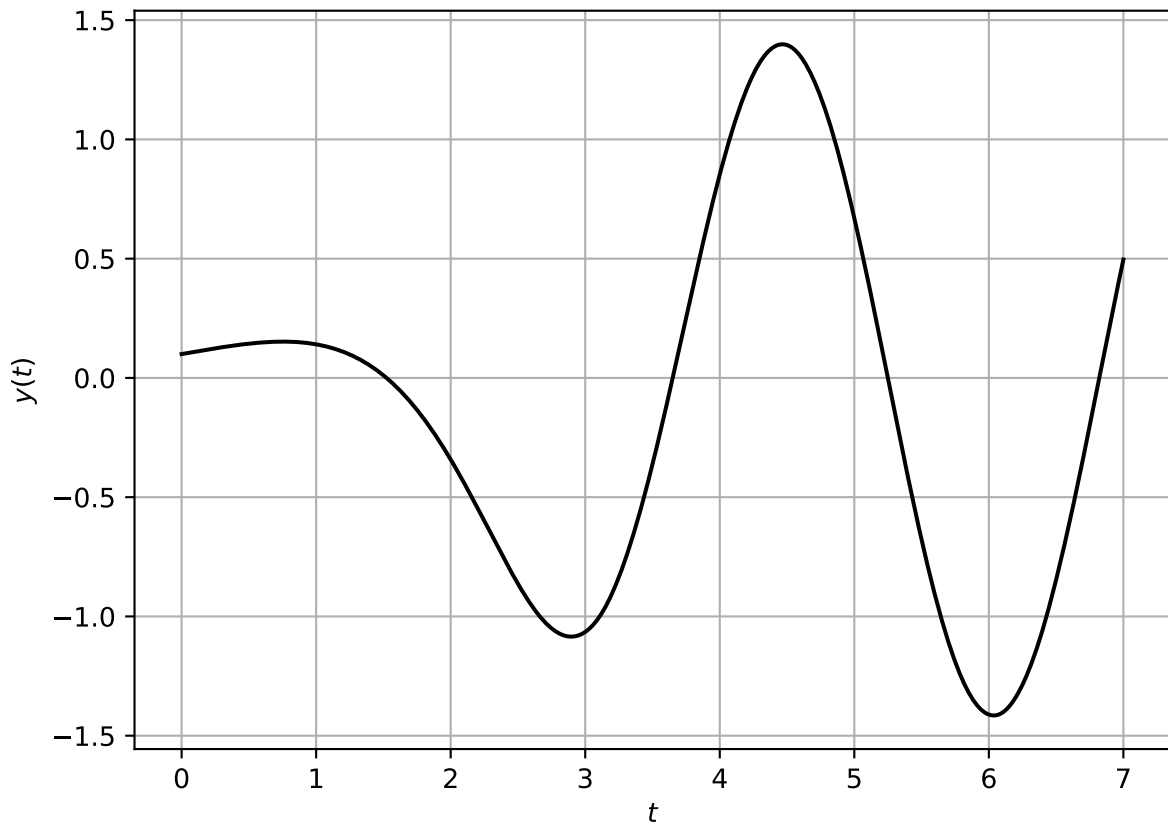
Problem 7.2(b), $y'(0) = 0$



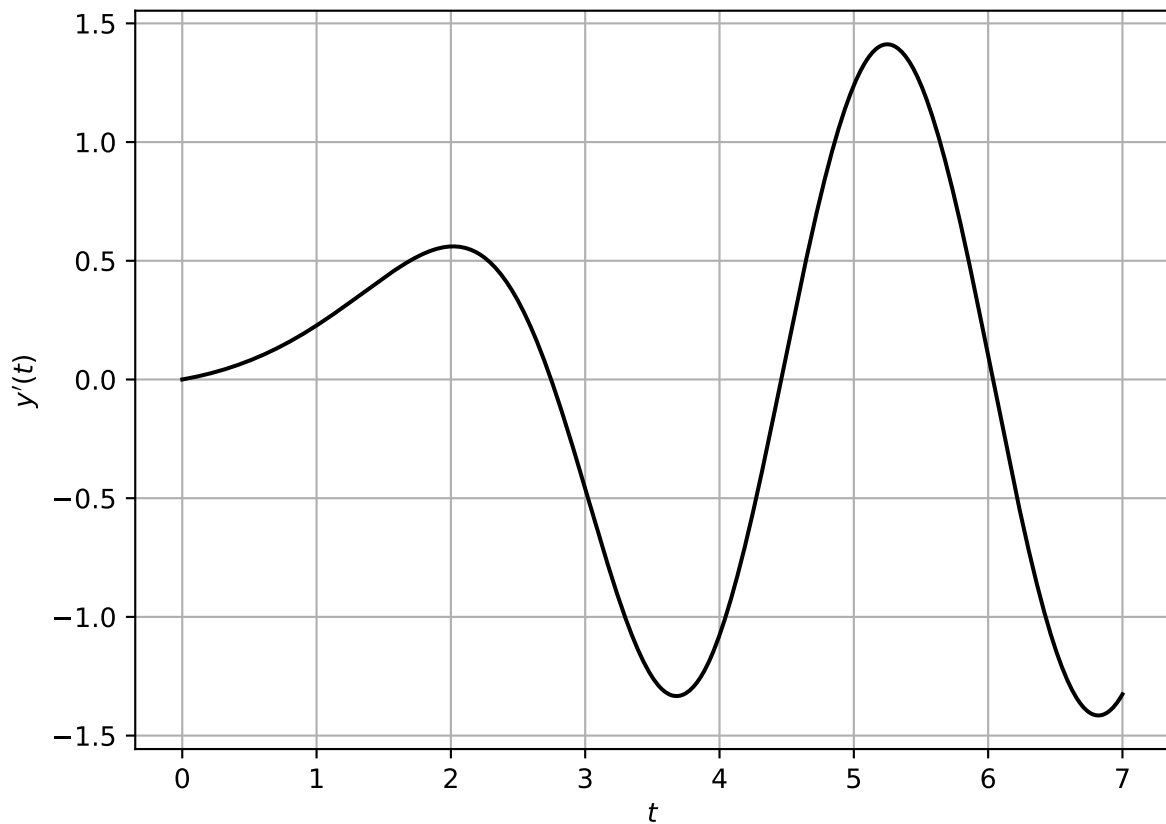
Problem 7.2(b), $y(0) = 1$



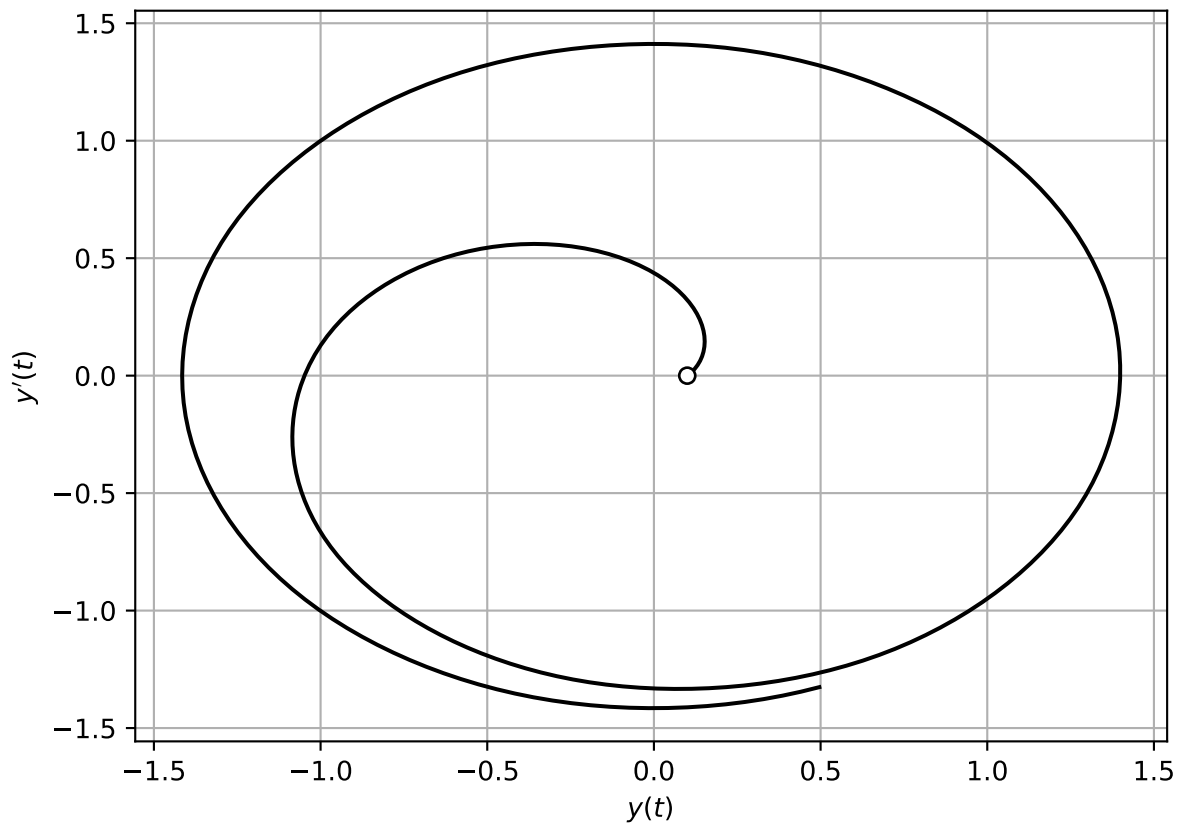
7.3(a) Stuart-Landau equation ($t_e = 7.00$)



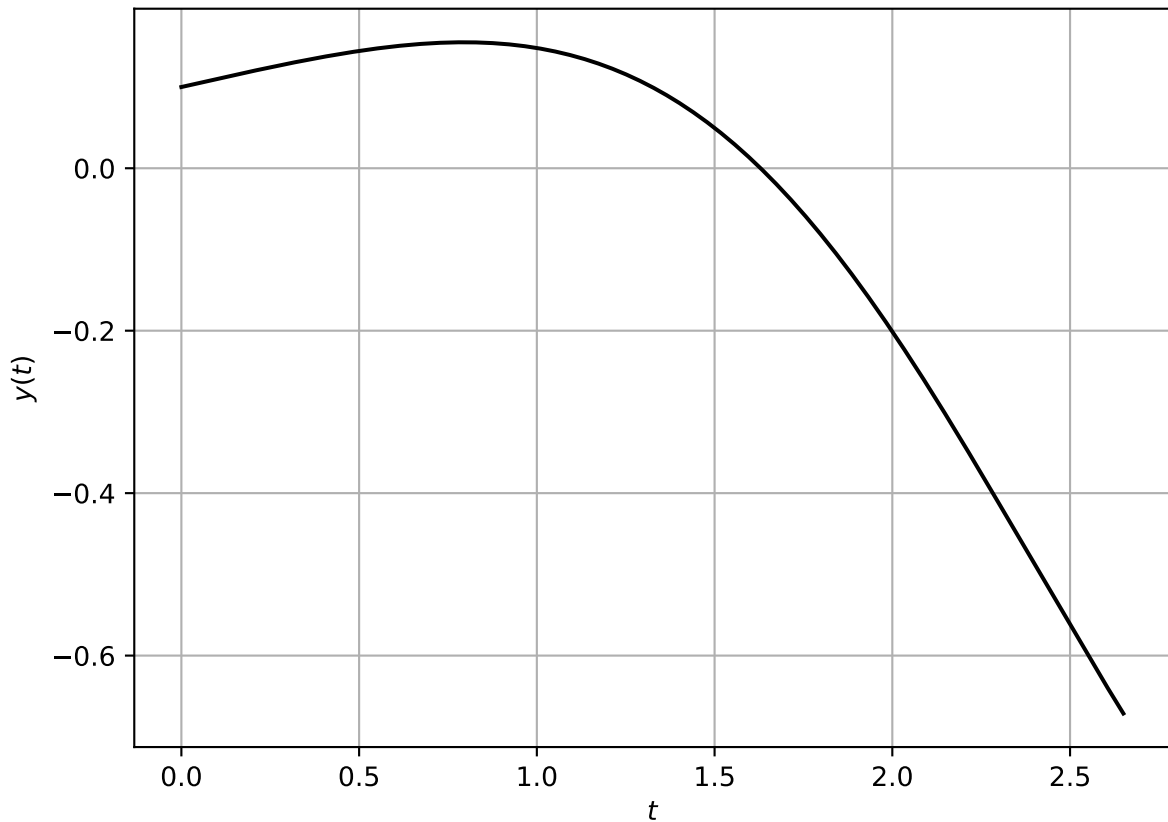
7.3(a) Stuart-Landau equation ($t_e = 7.00$)



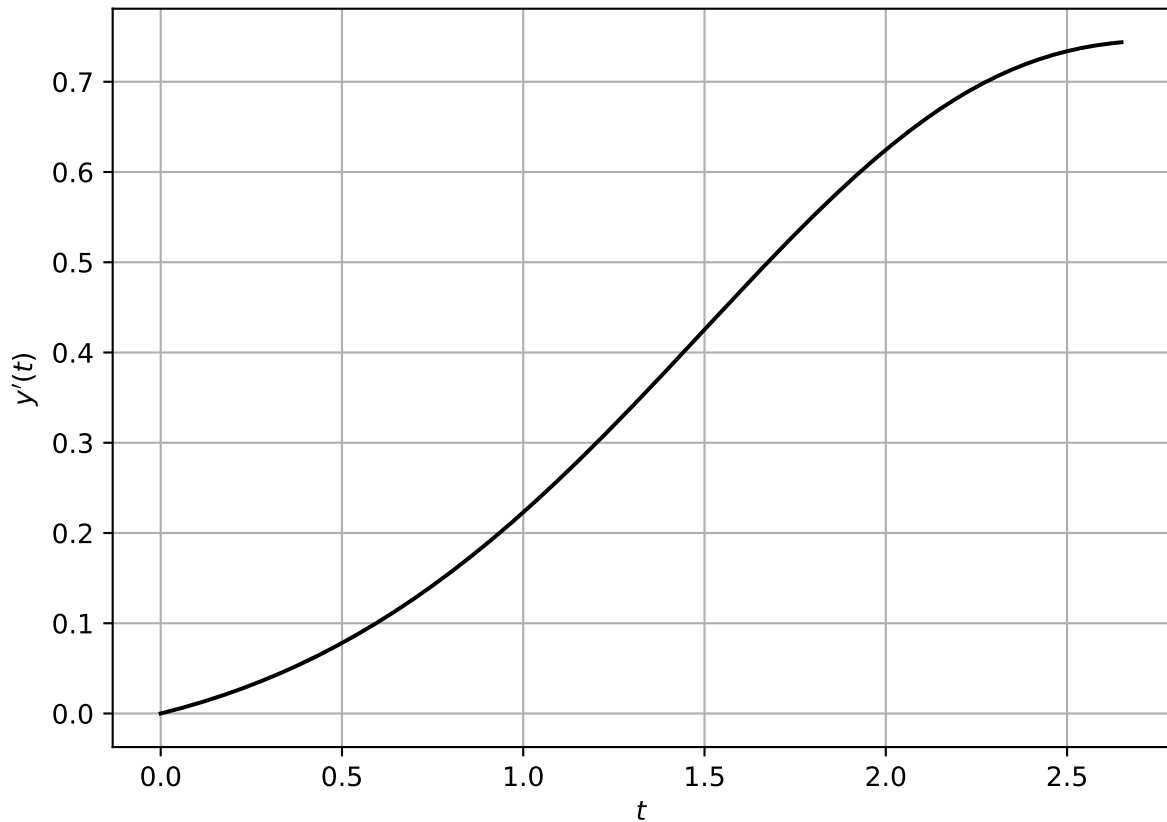
7.3(a) Stuart-Landau equation ($t_e = 7.00$)



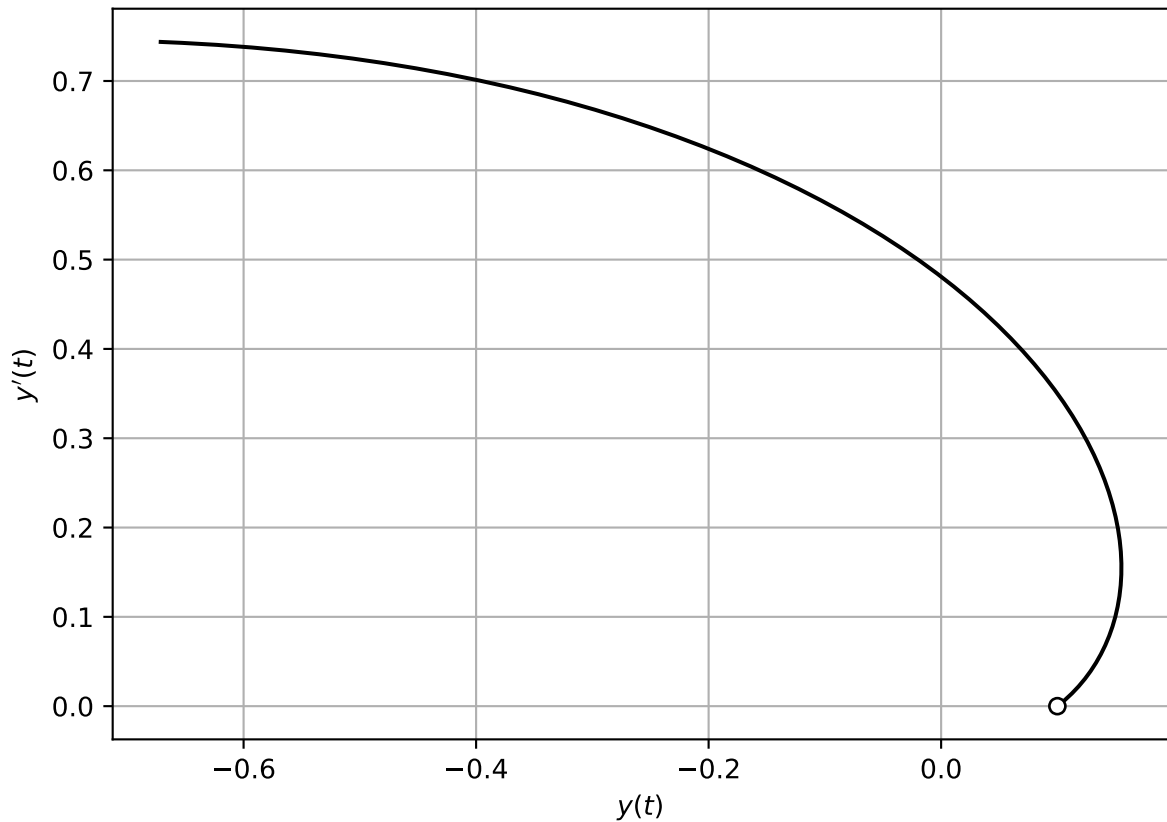
7.3(b) Stuart-Landau equation ($t_e = 2.65$)



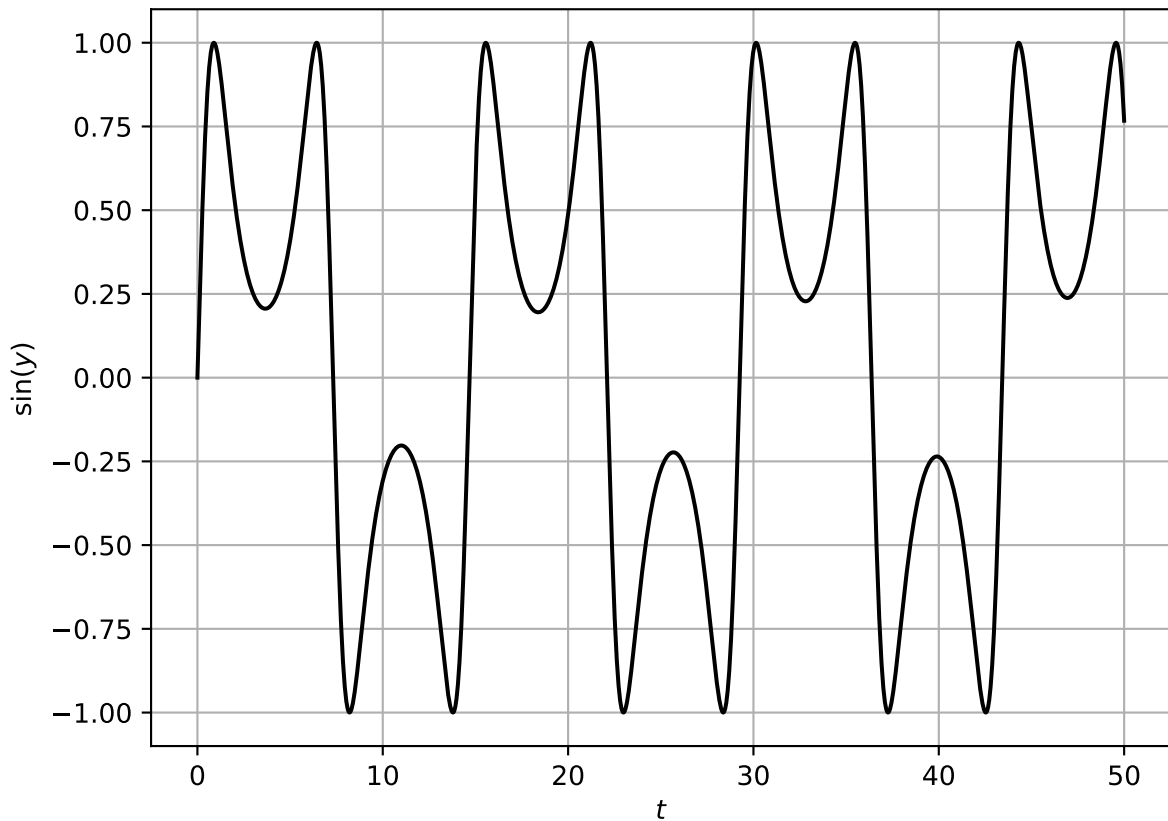
7.3(b) Stuart-Landau equation ($t_e = 2.65$)



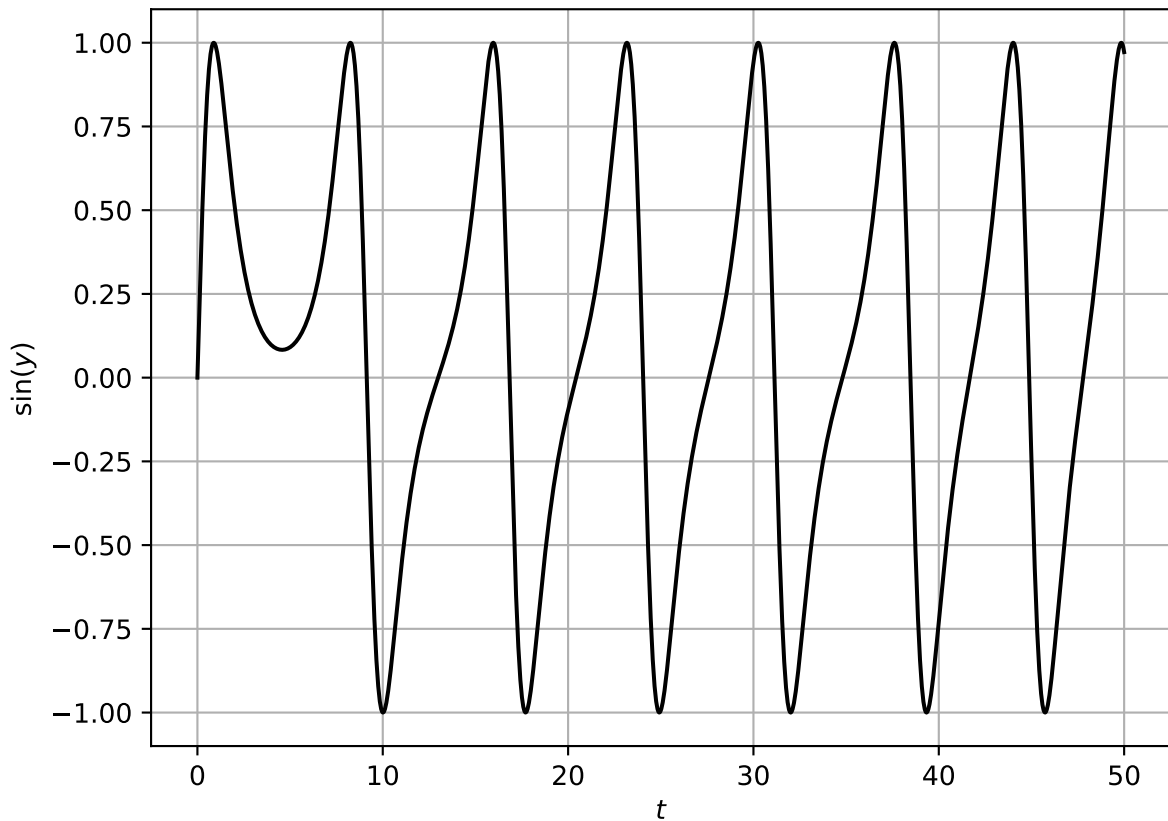
7.3(b) Stuart-Landau equation ($t_e = 2.65$)



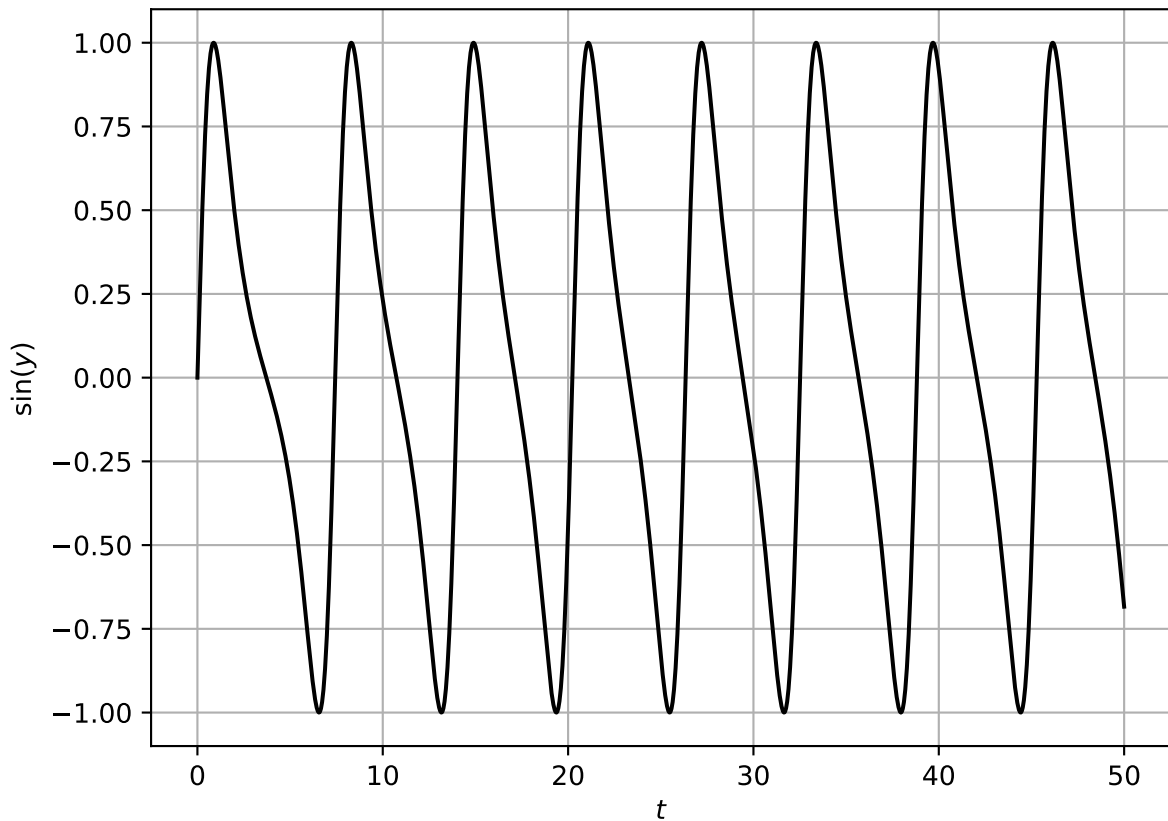
7.4 Pendulum, $\theta'(0) = 1.99$



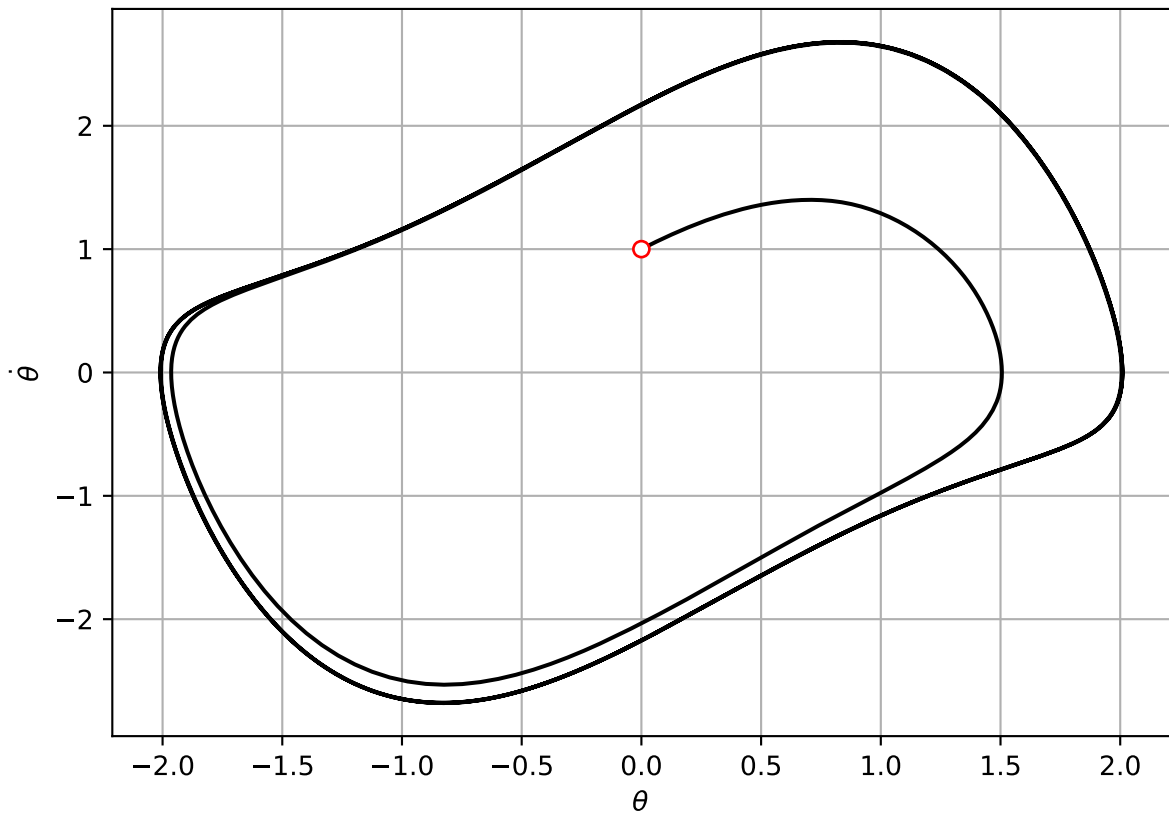
7.4 Pendulum, $\theta'(0) = 2.00$



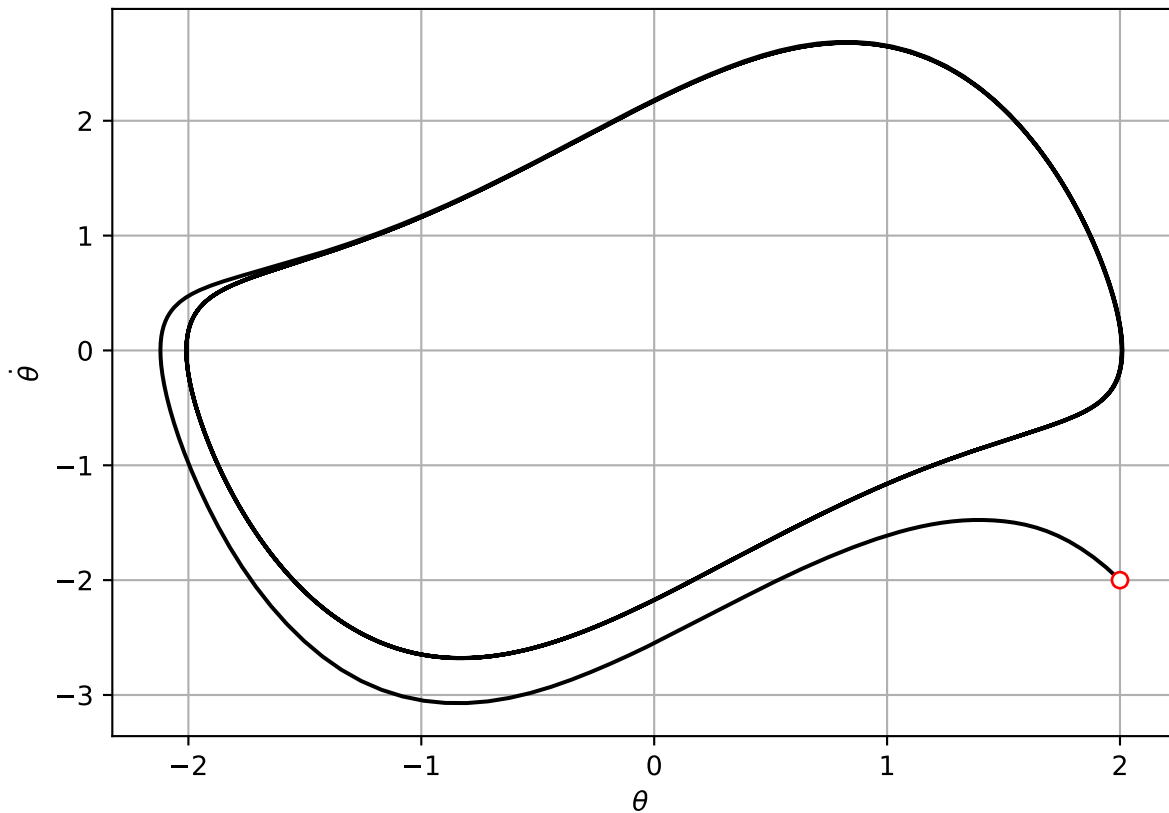
7.4 Pendulum, $\theta'(0) = 2.01$



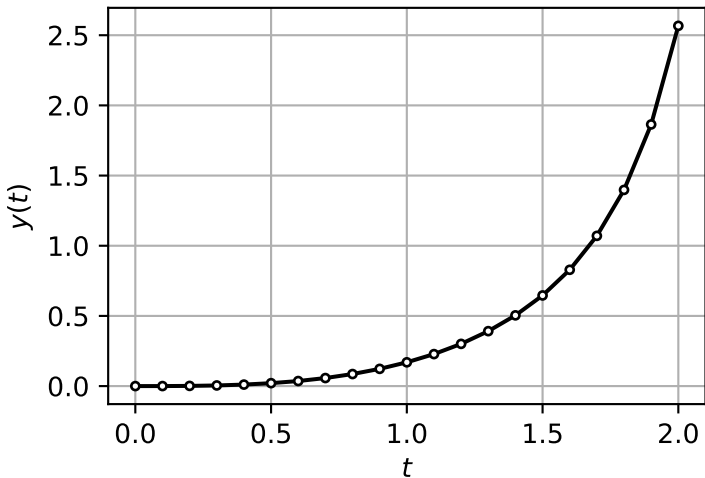
7.5 van der Pol oscillation: $(\theta, \dot{\theta})_0 = (0, 1)$



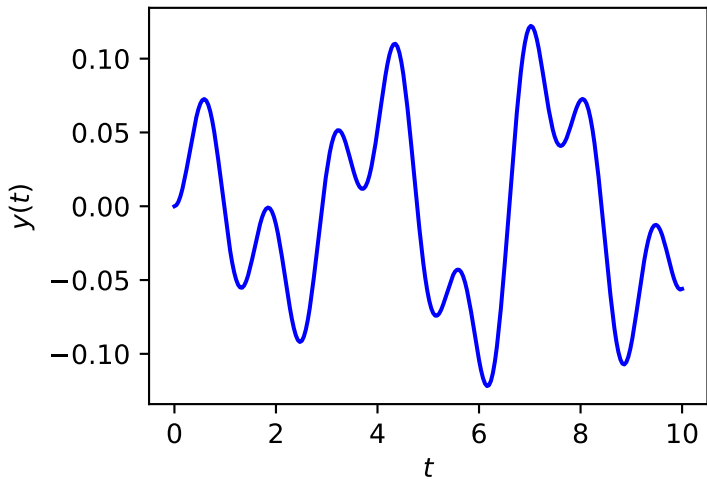
7.5 van der Pol oscillation: $(\theta, \dot{\theta})_0 = (2, -2)$



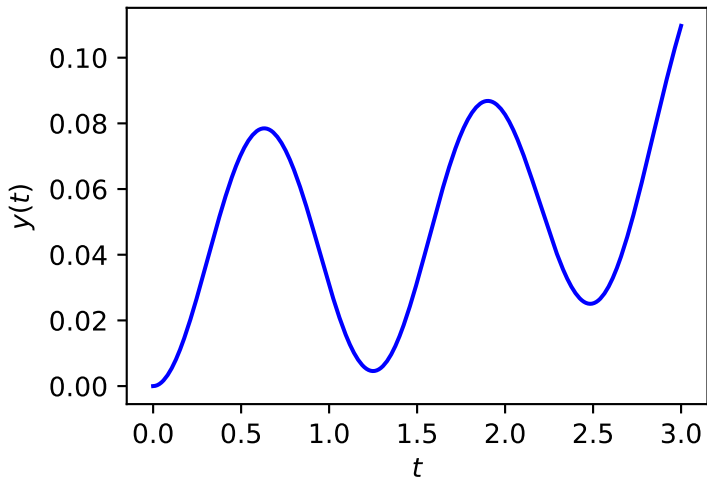
7.6 Painleve Transcendent I



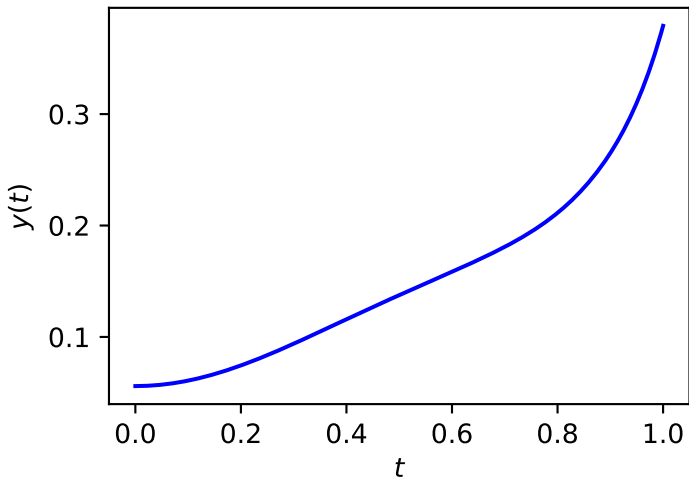
7.7 Case A



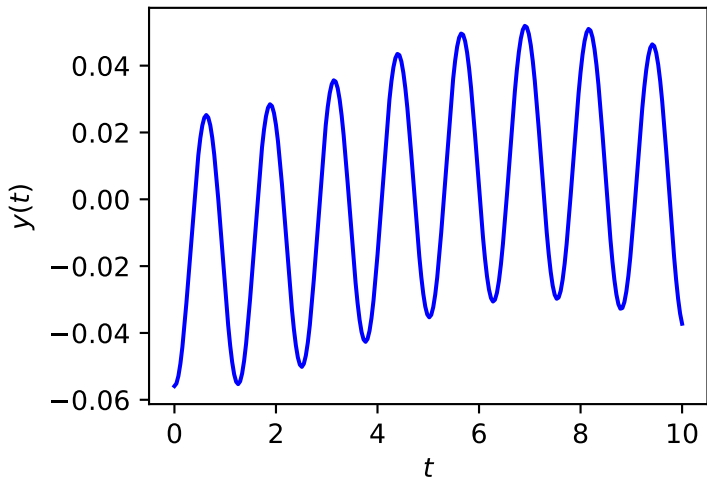
7.7 Case B



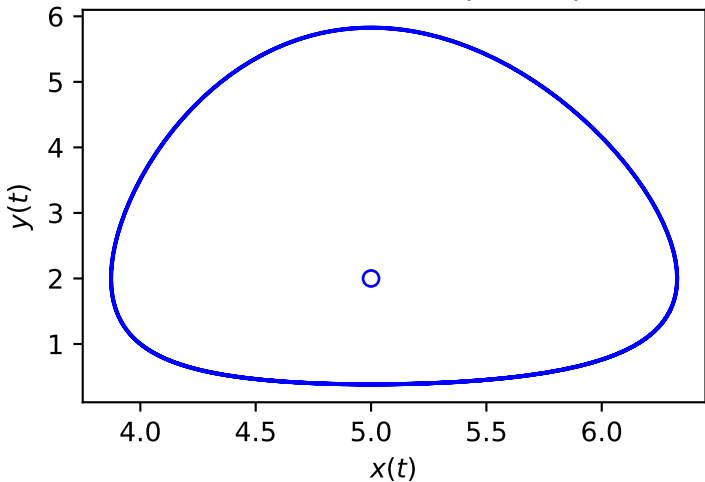
7.7 Case C



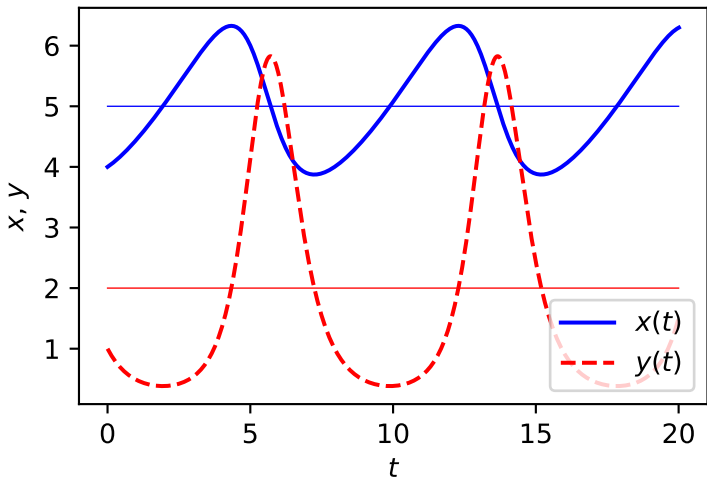
7.7 Case D



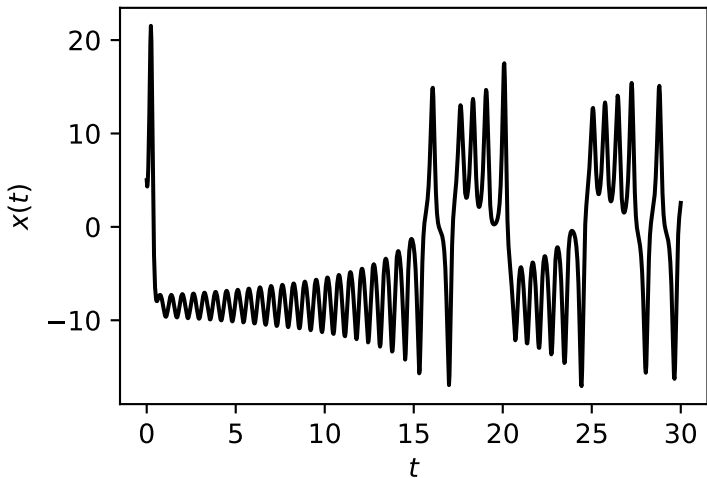
7.8 Lotka-Volterra, phase plot



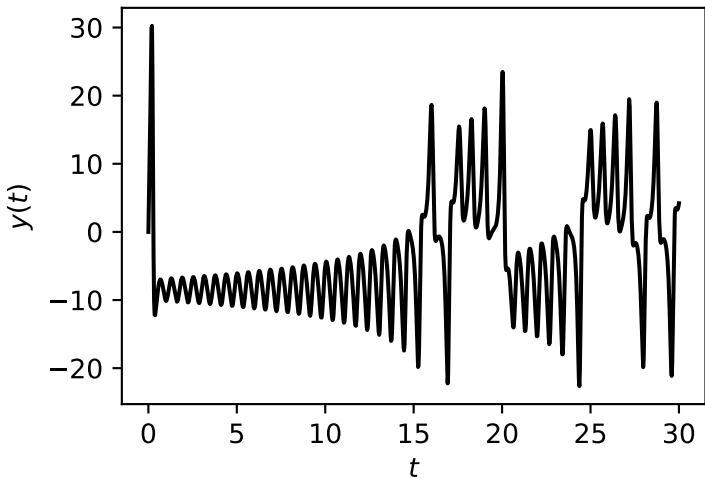
7.8 Lotka-Volterra time plot



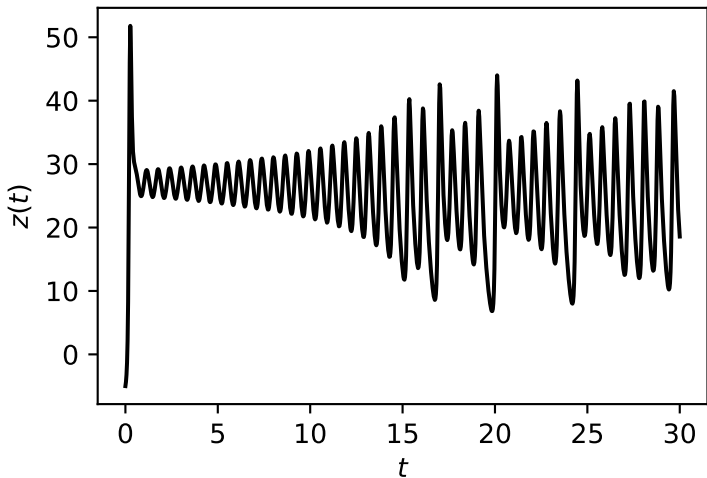
7.9 (a) Lorenz equation



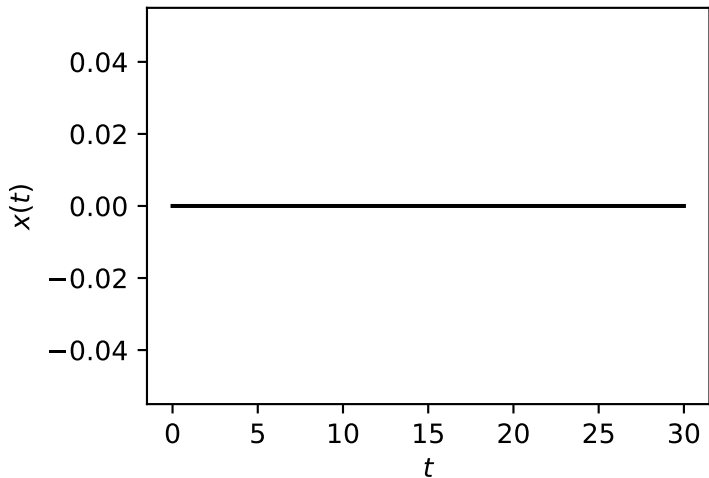
7.9 (a) Lorenz equation



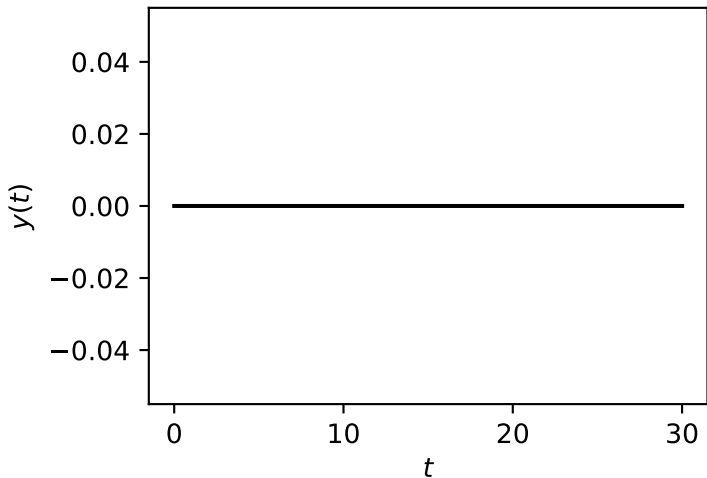
7.9 (a) Lorenz equation



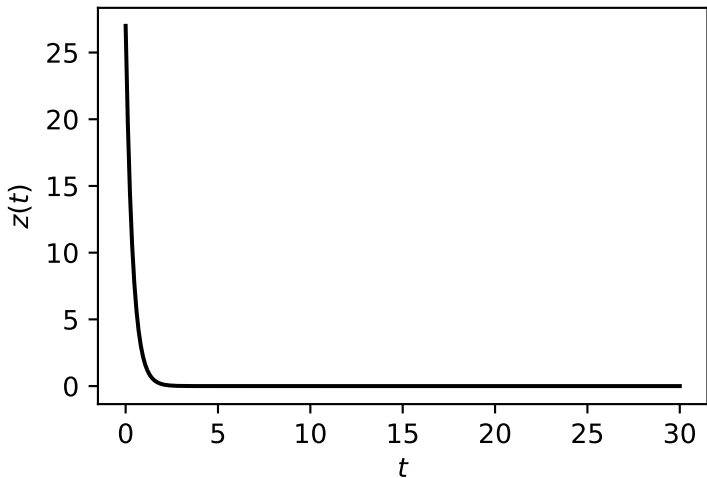
7.9 (b) Lorenz equation



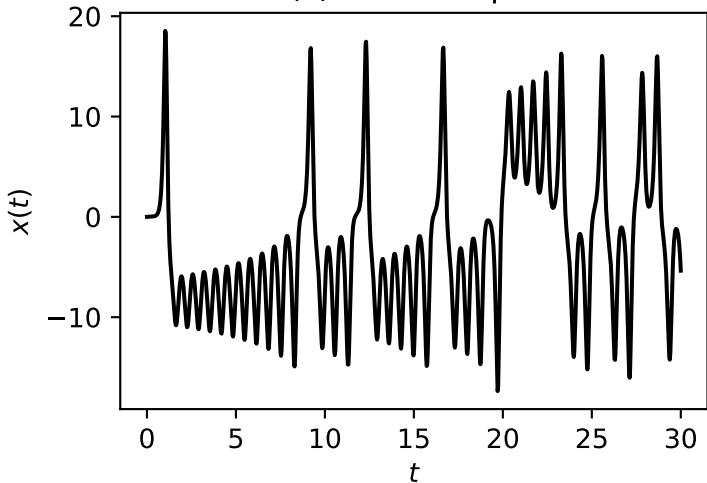
7.9 (b) Lorenz equation



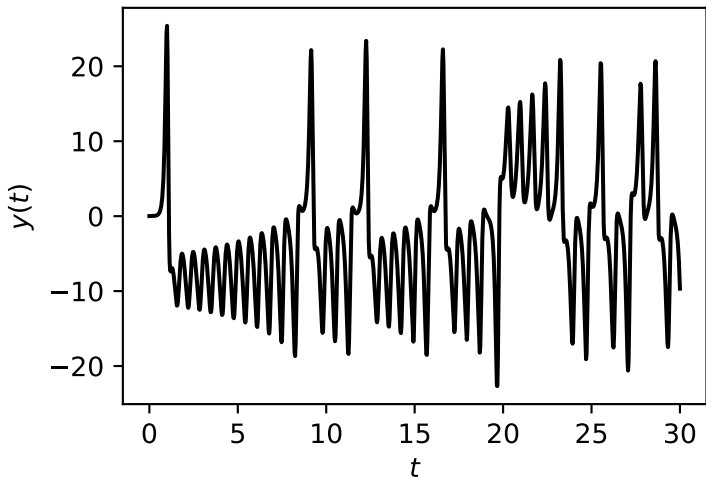
7.9 (b) Lorenz equation



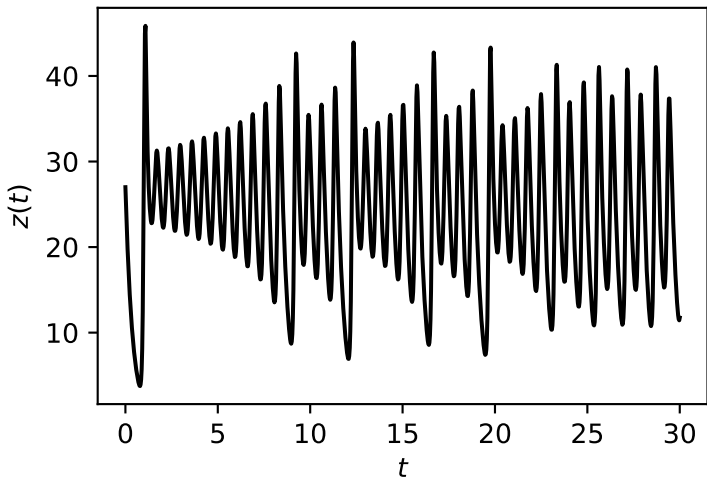
7.9 (c) Lorenz equation



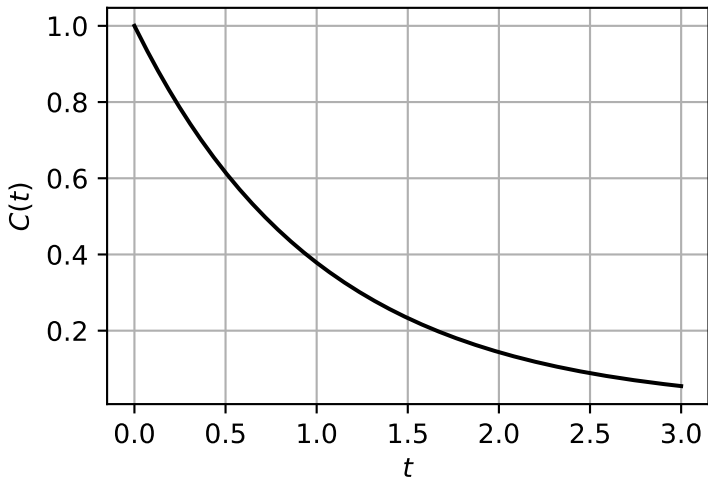
7.9 (c) Lorenz equation



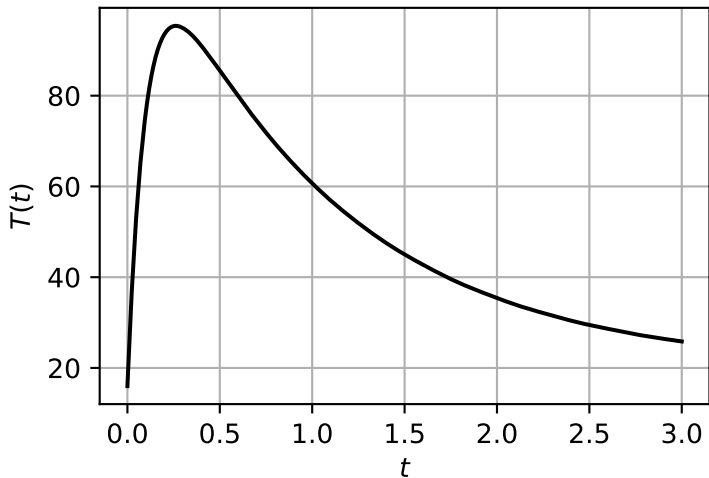
7.9 (c) Lorenz equation



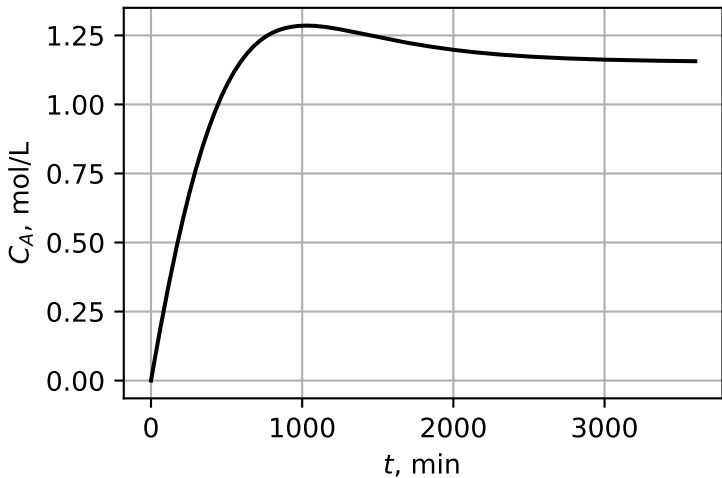
7.10 Concentration



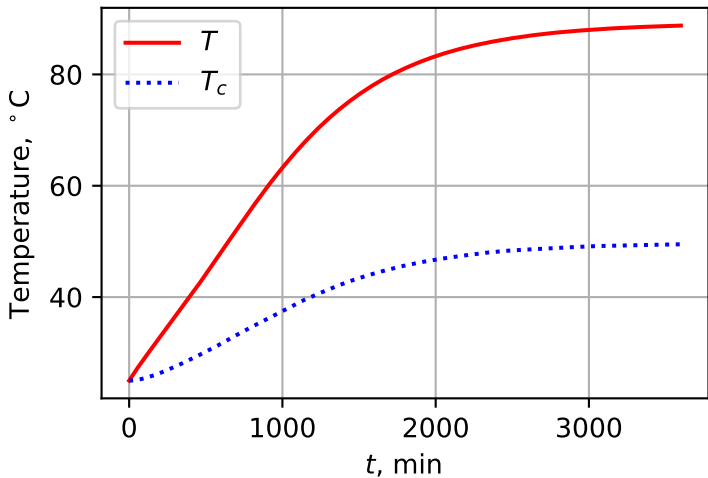
7.10 Temperature



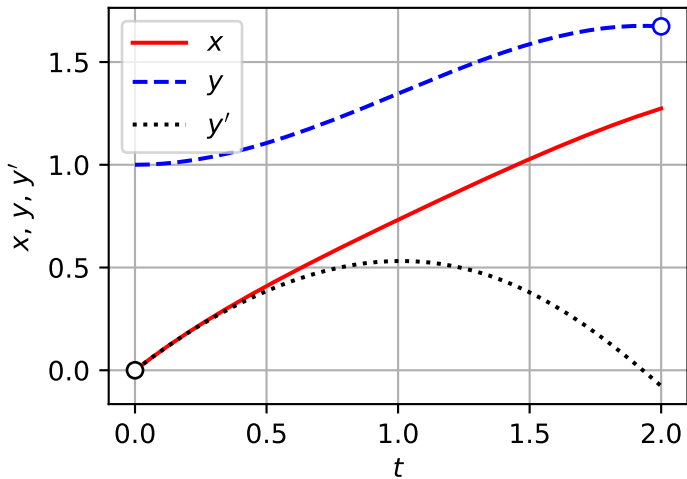
7.12 CSTR



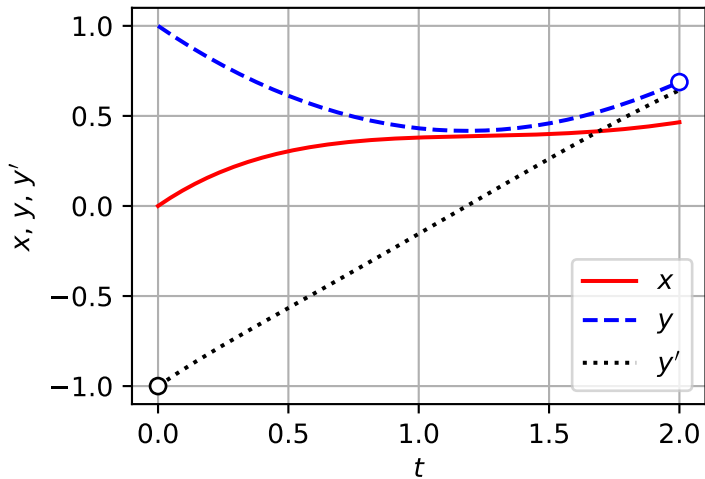
7.12 CSTR



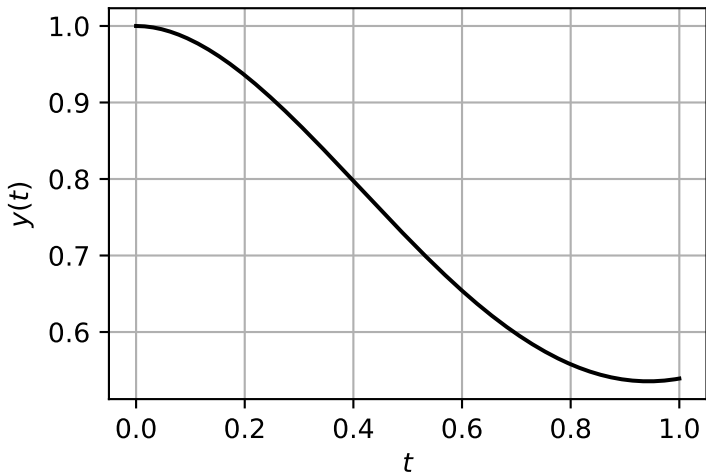
Problem 7.13(a)



Problem 7.13(b)



Problem 7.14(a) $x'(0) = -2.0$



Problem 7.14(b) $x'(0) = -4.0$

