

Answers for Selected Odd-Numbered Problems

EXERCISES 1.1 (PAGE 12)

1. linear, second order 3. linear, fourth order
 5. nonlinear, second order 7. linear, third order
 9. linear in x but nonlinear in y
 15. domain of function is $[-2, \infty)$; largest interval of definition for solution is $(-2, \infty)$
 17. domain of function is the set of real numbers except $x = 2$ and $x = -2$; largest intervals of definition for solution are $(-\infty, -2)$, $(-2, 2)$, or $(2, \infty)$
 19. $X = \frac{x^2 - 1}{x^2 - 2}$ defined on $(-\infty, \ln 2)$ or on $(\ln 2, \infty)$
 31. $m = -2$ 33. $m = 2, m = 3$ 35. $m = 0, m = -1$
 37. $y = 2$ 39. no constant solutions

EXERCISES 1.2 (PAGE 19)

1. $y = 1/(1 - 4e^{-x})$
 3. $y = 1/(x^2 - 1)$; $(1, \infty)$
 5. $y = 1/(x^2 + 1)$; $(-\infty, \infty)$
 7. $x = -\cos t + 8 \sin t$
 9. $x = \frac{\sqrt{2}}{10} \cos t + \frac{1}{5} \sin t$ 11. $y = \frac{2}{3} e^t - \frac{1}{3} e^{-t}$
 13. $y = 3e^{-t+1}$ 15. $y = 0, y = x^3$
 17. half-planes defined by either $y > 0$ or $y < 0$
 19. half-planes defined by either $x > 0$ or $x < 0$
 21. the regions defined by $y > 2, y < -2$, or $-2 < y < 2$
 23. any region not containing $(0, 0)$
 25. yes
 27. no
 29. (a) $y = cx$
 (b) any rectangular region not touching the y -axis
 (c) No, the function is not differentiable at $x = 0$.
 31. (b) $y = 1/(1 - x)$ on $(-\infty, 1)$;
 $y = -1/(x + 1)$ on $(-1, \infty)$;
 (c) $y = 0$ on $(-\infty, \infty)$
 39. $y = 3 \sin 2x$
 41. $y = 0$
 43. no solution

EXERCISES 1.3 (PAGE 30)

1. $\frac{dP}{dt} = kP + r$; $\frac{dP}{dt} = kP - r$
 3. $\frac{dP}{dt} = k_1 P - k_2 P^2$
 5. $\frac{dx}{dt} = kx(1000 - x)$
 9. $\frac{dA}{dt} + \frac{1}{100}A = 0$; $A(0) = 20$
 11. $\frac{dA}{dt} + \frac{7}{6400 - t}A = 6$ 13. $\frac{dh}{dt} = \frac{c\pi}{450} \sqrt{h}$

15. $L \frac{dv}{dt} + Rv = E(t)$ 17. $m \frac{dv}{dt} = mg - kv^2$
 19. $m \frac{d^2x}{dt^2} = -kx$
 21. $m \frac{dv}{dt} + r \frac{dm}{dt} + kv = mg + R$
 23. $\frac{d^2r}{dt^2} + \frac{gR^2}{r^3} = 0$ 25. $\frac{dA}{dt} = k(M - A)$, $k > 0$
 27. $\frac{dx}{dt} + kx = r$, $k > 0$ 29. $\frac{dy}{dt} = \frac{-x + \sqrt{x^2 + y^2}}{y}$

CHAPTER 1 IN REVIEW (PAGE 34)

1. $\frac{dy}{dx} = 10y$ 3. $y'' + 4^2y = 0$
 5. $y'' - 2y' + y = 0$ 7. (a), (d)
 9. (b) 11. (b)
 13. $y = c_1$ and $y = c_2 e^x$, c_1 and c_2 constants
 15. $y' = x^2 + y^2$
 17. (a) The domain is the set of all real numbers.
 (b) either $(-\infty, 0)$ or $(0, \infty)$
 19. For $x_0 = -1$ the interval is $(-\infty, 0)$, and for $x_0 = 2$ the interval is $(0, \infty)$.
 21. (c) $y = \begin{cases} -x^2, & x < 0 \\ x^2, & x \geq 0 \end{cases}$ 23. $(-\infty, \infty)$
 25. $(0, \infty)$ 27. $y = \frac{1}{2} e^{2x-1} + \frac{2}{3} e^{-x+1} - 2x$
 37. $y = \frac{1}{2} e^{2x-1} + \frac{2}{3} e^{-x+1} - 2x$
 39. $y_0 = 3, y_1 = 0$

EXERCISES 2.1 (PAGE 44)

21. 0 is asymptotically stable (attractor); 3 is unstable (repeller).
 23. 2 is semi-stable.
 25. -2 is unstable (repeller); 0 is semi-stable; 2 is asymptotically stable (attractor).
 27. -1 is asymptotically stable (attractor); 0 is unstable (repeller).
 29. $0 < P_0 < h/k$
 41. $\sqrt{mg/k}$

EXERCISES 2.2 (PAGE 52)

1. $y = -\frac{1}{2} \cos 5x + c$ 3. $y = \frac{1}{2} e^{-3x} + c$
 5. $y = ce^{x^2}$ 7. $-3e^{-2x} = 2e^{3x} + c$
 9. $\frac{1}{2} x^3 \ln x - \frac{1}{2} x^3 = \frac{1}{2} y^2 + 2y + \ln|y| + c$
 11. $4 \cos y = 2x + \sin 2x + c$
 13. $(e^x + 1)^{-2} + 2(e^x + 1)^{-1} = c$
 15. $3 = ce^{2t}$ 17. $P' = \frac{cP^2}{1 + cP^2}$
 19. $(y + 2)^2 e^x = c(x + 4)^2 e^x$ 21. $y = \sin(\frac{1}{2} x^2 + c)$

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