$y(1) = e \Rightarrow c_1 e + c_2 e = e, y'(1) = 0 \Rightarrow c_1 e + 2c_2 e + e = 0 \Rightarrow c_1 e + 2c_2 e = -e \Rightarrow c_1 + c_2 = 1, c_1 + 2c_2 = -1$
$\Rightarrow c_1 = 3, c_2 = -2 \Rightarrow y = 3e^x - 2xe^x + xe^x \ln x$

59. $x^2 y'' + 2xy' - 2y = x^2, y_1 = x^{-2}, y_2 = x$

$\Rightarrow v_1' = \frac{\begin{vmatrix} 0 & x \\ \frac{x^2}{x^2} & 1 \end{vmatrix}}{\begin{vmatrix} x^{-2} & x \\ -2x^{-3} & 1 \end{vmatrix}} = \frac{-x}{3x^{-2}} = -\frac{1}{3}x^3$ and $v_2' = \frac{\begin{vmatrix} x^{-2} & 0 \\ -2x^{-3} & \frac{x^2}{x^2} \end{vmatrix}}{\begin{vmatrix} x^{-2} & x \\ -2x^{-3} & 1 \end{vmatrix}} = \frac{x^{-2}}{3x^{-2}} = \frac{1}{3}$

$\Rightarrow v_1 = \int -\frac{1}{3}x^3 \, dx = -\frac{1}{12}x^4$ and $v_2 = \int \frac{1}{3} \, dx = \frac{1}{3}x \Rightarrow y_p = \left(-\frac{1}{12}x^4\right)(x^{-2}) + \left(\frac{1}{3}x\right)(x) = \frac{1}{4}x^2$

60. $x^2 y'' + xy' - y = x, y_1 = x^{-1}, y_2 = x$

$\Rightarrow v_1' = \frac{\begin{vmatrix} 0 & x \\ \frac{1}{x} & 1 \end{vmatrix}}{\begin{vmatrix} x^{-1} & x \\ -x^{-2} & 1 \end{vmatrix}} = \frac{-x}{2x^{-1}} = -\frac{1}{2}x$ and $v_2' = \frac{\begin{vmatrix} x^{-1} & 0 \\ -x^{-2} & \frac{1}{x} \end{vmatrix}}{\begin{vmatrix} x^{-1} & x \\ -x^{-2} & 1 \end{vmatrix}} = \frac{x^{-2}}{2x^{-1}} = \frac{1}{2}x^{-1}$

$\Rightarrow v_1 = \int -\frac{1}{2}x \, dx = -\frac{1}{4}x^2$ and $v_2 = \int \frac{1}{2}x^{-1} \, dx = \frac{1}{2}\ln|x| \Rightarrow y_p = \left(-\frac{1}{4}x^2\right)(x^{-1}) + \left(\frac{1}{2}\ln|x|\right)(x) = -\frac{1}{4}x + \frac{1}{2}x\ln|x|$

17.3 APPLICATIONS

1. $mg = 16 \Rightarrow m = \frac{16}{32}; k = 1; \delta = 1 \Rightarrow \frac{16}{32}\frac{d^2y}{dt^2} + 1\frac{dy}{dt} + 1y = 0 \Rightarrow \frac{1}{2}\frac{d^2y}{dt^2} + \frac{dy}{dt} + y = 0, y(0) = 2, y'(0) = 2$

2. $mg = 8 \text{ lb} \Rightarrow m = \frac{8}{32}; 8 = k \cdot 4 \Rightarrow k = 2; \delta = 1.5 \Rightarrow \frac{8}{32}\frac{d^2y}{dt^2} + 1.5\frac{dy}{dt} + 2y = 0 \Rightarrow \frac{1}{4}\frac{d^2y}{dt^2} + \frac{3}{2}\frac{dy}{dt} + 2y = 0, y(0) = -2,$
$y'(0) = 3$

3. $20 = k \cdot \frac{1}{2} \Rightarrow k = 40; w = 25 \text{ lb} \Rightarrow m = \frac{25}{32}; \delta = 0 \Rightarrow \frac{25}{32}\frac{d^2y}{dt^2} + 0 \cdot \frac{dy}{dt} + 40y = 0.$ If $w = 25$ lb, it stretches the
spring $25 = 40x \Rightarrow x = \frac{5}{8}$ ft $\Rightarrow$ spring is now stretched $\frac{5+2}{8} - \frac{2}{8} = \frac{7}{24}$ ft below equilibrium $\Rightarrow y(0) = \frac{7}{24}$; initial velocity
is $v_0 \frac{m}{s} = \frac{9}{12} \frac{ft}{s} \Rightarrow y'(0) = \frac{9}{12}.$ Thus we have $\frac{25}{32}\frac{d^2y}{dt^2} + 40y = 0, y(0) = \frac{7}{24}, y'(0) = \frac{9}{12}$

4. $w = 10 \text{ lb} \Rightarrow m = \frac{10}{32}; 10 = k \cdot \left(\frac{2}{12}\right) \Rightarrow k = 60\frac{lb}{ft}; \delta = \frac{20}{\sqrt{g}} = \frac{20}{\sqrt{32}} \Rightarrow \frac{10}{32}\frac{d^2y}{dt^2} + \frac{20}{\sqrt{32}}\frac{dy}{dt} + 60y = 0$
$\Rightarrow \frac{10}{32}\frac{d^2y}{dt^2} + \frac{5}{\sqrt{2}}\frac{dy}{dt} + 60y = 0, y(0) = \frac{1}{4}, y'(0) = 0$

5. $E(t) = 20\cos t; R\frac{dq}{dt} = 4\frac{dq}{dt}; \frac{1}{C}q = 10q; L\frac{d^2q}{dt^2} = 2\frac{d^2q}{dt^2} \Rightarrow 2\frac{d^2q}{dt^2} + 4\frac{dq}{dt} + 10q = 20\cos t, q(0) = 2, q'(0) = 3$

6. $L = 2, R = 12, C = \frac{1}{16}, E(t) = 300 \Rightarrow 2\frac{d^2q}{dt^2} + 12\frac{dq}{dt} + 16q = 300, q(0) = 0, q'(0) = 0$

7. $mg = 16 \Rightarrow m = \frac{16}{32}; k = 1; \text{resistance} = \text{velocity} \Rightarrow \delta = 1 \Rightarrow \frac{1}{2}\frac{d^2y}{dt^2} + 1\frac{dy}{dt} + 1y = 0, y(0) = 2, y'(0) = 2$
$\Rightarrow \frac{1}{2}r^2 + r + 1 = 0 \Rightarrow r^2 + 2r + 2 = 0 \Rightarrow r = \frac{-2 \pm \sqrt{2^2 - 4(1)(2)}}{2(1)} = -1 \pm i \Rightarrow y = e^{-t}(c_1\cos t + c_2\sin t).$
$\Rightarrow y' = e^{-t}(-c_1\sin t + c_2\cos t) - e^{-t}(c_1\cos t + c_2\sin t); y(0) = 2 \Rightarrow c_1 = 2; y'(0) = 2 \Rightarrow c_2 - c_1 = 2 \Rightarrow c_2 = 4$
$\Rightarrow y(t) = e^{-t}(2\cos t + 4\sin t).$ At $t = \pi, y = e^{-\pi}(2\cos\pi + 4\sin\pi) = -2e^{-\pi} \approx -0.0864 \Rightarrow 0.0864$ ft above
equilibrium.

8. $w = 8 \Rightarrow m = \frac{8}{32}; 8 = k \cdot 4 \Rightarrow k = 2; \text{resistance} = 1.5 v \Rightarrow \delta = 1.5 \Rightarrow \frac{1}{4}\frac{d^2y}{dt^2} + 1.5\frac{dy}{dt} + 2y = 0, y(0) = -2, y'(0) = 3$
$\Rightarrow \frac{1}{4}r^2 + 1.5r + 2 = 0 \Rightarrow r^2 + 6r + 8 = 0 \Rightarrow (r + 4)(r + 2) \Rightarrow r = -4 \text{ or } r = -2 \Rightarrow y = c_1 e^{-4t} + c_2 e^{-2t}$
$\Rightarrow y' = -4c_1 e^{-4t} - 2c_2 e^{-2t}; y(0) = -2 \Rightarrow c_1 + c_2 = -2; \Rightarrow y'(0) = 3 \Rightarrow -4c_1 - 2c_2 = 3 \Rightarrow c_1 = \frac{1}{2}, c_2 = -\frac{5}{2}$
$\Rightarrow y(t) = \frac{1}{2}e^{-4t} - \frac{5}{2}e^{-2t}.$ At $t = 2, y = \frac{1}{2}e^{-8} - \frac{5}{2}e^{-2} \approx -0.0456 \Rightarrow 0.0456$ ft above equilibrium.

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1. Understanding the eBook Solution Thomas Calculus 12th Edition Fall 23
    - The Rise of Digital Reading Solution Thomas Calculus 12th Edition Fall 23
    - Advantages of eBooks Over Traditional Books
2. Identifying Solution Thomas Calculus 12th Edition Fall 23
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Solution Thomas Calculus 12th Edition Fall 23
    - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Thomas Calculus 12th Edition Fall 23
    - Personalized Recommendations
    - Solution Thomas Calculus 12th Edition Fall 23 User Reviews and Ratings
    - Solution Thomas Calculus 12th Edition Fall 23 and Bestseller Lists
5. Accessing Solution Thomas Calculus 12th Edition Fall 23 Free and Paid eBooks
    - Solution Thomas Calculus 12th Edition Fall 23 Public Domain eBooks
    - Solution Thomas Calculus 12th Edition Fall 23 eBook Subscription Services
    - Solution Thomas Calculus 12th Edition Fall 23 Budget-Friendly Options
6. Navigating Solution Thomas Calculus 12th Edition Fall 23 eBook Formats

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