

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

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

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

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

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

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

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

17.3 APPLICATIONS

- $mg = 16 \Rightarrow m = \frac{16}{32}; k = 1; \delta = 1 \Rightarrow \frac{16}{32} \frac{d^2y}{dt^2} + 1 \frac{dy}{dt} + 1y = 0 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + \frac{dy}{dt} + y = 0, y(0) = 2, y'(0) = 2$
- $mg = 8 \text{ lb} \Rightarrow m = \frac{8}{32}; 8 = k \cdot 4 \Rightarrow k = 2; \delta = 1.5 \Rightarrow \frac{8}{32} \frac{d^2y}{dt^2} + 1.5 \frac{dy}{dt} + 2y = 0 \Rightarrow \frac{1}{4} \frac{d^2y}{dt^2} + \frac{3}{8} \frac{dy}{dt} + 2y = 0, y(0) = -2, y'(0) = 3$
- $20 = k \cdot \frac{1}{4} \Rightarrow k = 40; w = 25 \text{ lb} \Rightarrow m = \frac{25}{32}; \delta = 0 \Rightarrow \frac{25}{32} \frac{d^2y}{dt^2} + 0 \cdot \frac{dy}{dt} + 40y = 0$. If $w = 25 \text{ lb}$, it stretches the spring $25 = 40x \Rightarrow x = \frac{5}{8} \text{ ft} \Rightarrow$ spring is now stretched $\frac{5}{12} - \frac{1}{4} = \frac{1}{24} \text{ ft}$ below equilibrium $\Rightarrow y(0) = \frac{1}{24}$; initial velocity is $v_0 = \frac{80}{320} = \frac{1}{4} \frac{\text{ft}}{\text{sec}} \Rightarrow y'(0) = \frac{1}{4}$. Thus we have $\frac{25}{32} \frac{d^2y}{dt^2} + 40y = 0, y(0) = \frac{1}{24}, y'(0) = \frac{1}{4}$
- $w = 10 \text{ lb} \Rightarrow m = \frac{10}{32}; 10 = k \cdot \left(\frac{1}{16}\right) \Rightarrow k = 60 \frac{\text{lb}}{\text{ft}}; \delta = \frac{20}{\sqrt{32}} = \frac{5\sqrt{2}}{\sqrt{32}} \Rightarrow \frac{10}{32} \frac{d^2y}{dt^2} + \frac{5\sqrt{2}}{\sqrt{32}} \frac{dy}{dt} + 60y = 0 \\ \Rightarrow \frac{5}{16} \frac{d^2y}{dt^2} + \frac{5}{\sqrt{2}} \frac{dy}{dt} + 60y = 0, y(0) = \frac{1}{4}, y'(0) = 0$
- $E(t) = 20 \cos t; R \frac{dq}{dt} = 4 \frac{dq}{dt}; \frac{1}{C} q = 10q; L \frac{d^2q}{dt^2} = 2 \frac{d^2q}{dt^2} \Rightarrow 2 \frac{d^2q}{dt^2} + 4 \frac{dq}{dt} + 10q = 20 \cos t, q(0) = 2, q'(0) = 3$
- $L = 2, R = 12, C = \frac{1}{16}, E(t) = 300 \Rightarrow 2 \frac{d^2q}{dt^2} + 12 \frac{dq}{dt} + 16q = 300, q(0) = 0, q'(0) = 0$
- $mg = 16 \Rightarrow m = \frac{16}{32}; k = 1; \text{resistance} = \text{velocity} \Rightarrow \delta = 1 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + 1 \frac{dy}{dt} + 1y = 0, y(0) = 2, y'(0) = 2 \\ \Rightarrow \frac{1}{2} r^2 + r + 1 = 0 \Rightarrow r^2 + 2r + 2 = 0 \Rightarrow r = \frac{-2 \pm \sqrt{2^2 - 4(1)(2)}}{2(1)} = -1 \pm i \Rightarrow y = e^{-t}(c_1 \cos t + c_2 \sin t) \\ \Rightarrow y' = e^{-t}(-c_1 \sin t + c_2 \cos t) - e^{-t}(c_1 \cos t + c_2 \sin t); y(0) = 2 \Rightarrow c_1 = 2; y'(0) = 2 \Rightarrow -c_2 - c_1 = 2 \Rightarrow c_2 = -4 \\ \Rightarrow y(t) = e^{-t}(2 \cos t - 4 \sin t). \text{ At } t = \pi, y = e^{-\pi}(2 \cos \pi - 4 \sin \pi) = -2e^{-\pi} \approx -0.0864 \Rightarrow 0.0864 \text{ ft above equilibrium.}$
- $w = 8 \Rightarrow m = \frac{8}{32}; 8 = k \cdot 4 \Rightarrow k = 2; \text{resistance} = 1.5v \Rightarrow \delta = 1.5 \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + 1.5 \frac{dy}{dt} + 2y = 0, y(0) = -2, y'(0) = 3 \\ \Rightarrow \frac{1}{4} r^2 + 1.5r + 2 = 0 \Rightarrow r^2 + 6r + 8 = 0 \Rightarrow (r+4)(r+2) \Rightarrow r = -4 \text{ or } r = -2 \Rightarrow y = c_1 e^{-4t} + c_2 e^{-2t} \\ \Rightarrow y' = -4c_1 e^{-4t} - 2c_2 e^{-2t}; y(0) = -2 \Rightarrow c_1 + c_2 = -2; \Rightarrow y'(0) = 3 \Rightarrow -4c_1 - 2c_2 = 3 \Rightarrow c_1 = \frac{1}{2}, c_2 = -\frac{5}{2} \\ \Rightarrow y(t) = \frac{1}{2} e^{-4t} - \frac{5}{2} e^{-2t}. \text{ At } t = 2, y = \frac{1}{2} e^{-8} - \frac{5}{2} e^{-4} \approx -0.0456 \Rightarrow 0.0456 \text{ ft above equilibrium.}$

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