

$$y(1) = e \Rightarrow c_1e + c_2e = e, y'(1) = 0 \Rightarrow c_1e + 2c_2e + e = 0 \Rightarrow c_1e + 2c_2e = -e \Rightarrow c_1 + 2c_2 = 1, c_1 + 2c_2 = -1$$

$$\Rightarrow c_1 = 3, c_2 = -2 \Rightarrow y = 3e^x - 2xe^x + xe^x \ln x$$

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

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

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

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

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

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

17.3 APPLICATIONS

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

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

3. $20 = k \cdot \frac{1}{2} \Rightarrow k = 40; w = 25 \text{ lb} \Rightarrow m = \frac{25}{g}; \delta = 0 \Rightarrow \frac{25}{g} \frac{d^2y}{dt^2} + 0 \cdot \frac{dy}{dt} + 40y = 0$. If $w = 25 \text{ lb}$, it stretches the spring $25 = 40x \Rightarrow x = \frac{5}{8}$ ft \Rightarrow spring is now stretched $\frac{5}{8} - \frac{1}{2} = \frac{1}{8}$ ft below equilibrium $\Rightarrow y(0) = \frac{1}{8}$; initial velocity is $v_0 \frac{dy}{dt} = \frac{1}{2} - \frac{5}{8} \Rightarrow y'(0) = \frac{1}{16}$. Thus we have $\frac{25}{g} \frac{d^2y}{dt^2} + 40y = 0, y(0) = \frac{1}{8}, y'(0) = \frac{1}{16}$

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

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

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

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

8. $w = 8 \Rightarrow m = \frac{8}{g}; 8 = k \cdot 4 \Rightarrow k = 2; \text{resistance} = 1.5v \Rightarrow \delta = 1.5 \Rightarrow \frac{1}{g} \frac{d^2y}{dt^2} + 1.5 \frac{dy}{dt} + 2y = 0, y(0) = -2, y'(0) = 3$
 $\Rightarrow \frac{1}{2}r^2 + 1.5r + 2 = 0 \Rightarrow r^2 + 6r + 8 = 0 \Rightarrow (r+4)(r+2) \Rightarrow r = -4 \text{ or } r = -2 \Rightarrow y = c_1e^{-4t} + c_2e^{-2t}$
 $\Rightarrow y' = -4c_1e^{-4t} - 2c_2e^{-2t}; y(0) = -2 \Rightarrow c_1 + c_2 = -2; \Rightarrow y'(0) = 3 \Rightarrow -4c_1 - 2c_2 = 3 \Rightarrow c_1 = \frac{1}{2}, c_2 = -\frac{5}{2}$
 $\Rightarrow y(t) = \frac{1}{2}e^{-4t} - \frac{5}{2}e^{-2t}$. At $t = 2$, $y = \frac{1}{2}e^{-8} - \frac{5}{2}e^{-4} \approx 0.0456 \Rightarrow 0.0456 \text{ ft above equilibrium}$.

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