

$$18. mg = 10 \Rightarrow m = \frac{10}{g}; 10 = k \cdot 2 \Rightarrow k = 5; \delta = \frac{y_0}{L} = \frac{2\sqrt{2}}{4} \Rightarrow \frac{1}{g} \frac{d^2y}{dt^2} + \frac{2\sqrt{2}}{4} \frac{dy}{dt} + 5y = 0, y(0) = \frac{1}{2}, y'(0) = 0$$

$$\Rightarrow \frac{1}{16}r^2 + \frac{2\sqrt{2}}{4}r + 5 = 0 \Rightarrow r^2 + 4\sqrt{2}r + 16 = 0 \Rightarrow r = \frac{-4\sqrt{2} \pm \sqrt{(4\sqrt{2})^2 - 4(1)(16)}}{2(1)} = -2\sqrt{2} \pm 2\sqrt{2}i$$

$$\Rightarrow y(t) = e^{-2\sqrt{2}t} (c_1 \cos 2\sqrt{2}t + c_2 \sin 2\sqrt{2}t)$$

$$\Rightarrow y' = e^{-2\sqrt{2}t} \left[(-2\sqrt{2}c_1 + 2\sqrt{2}c_2) \cos 2\sqrt{2}t + (-2\sqrt{2}c_1 - 2\sqrt{2}c_2) \sin 2\sqrt{2}t \right]; y(0) = \frac{1}{2} \Rightarrow c_1 = \frac{1}{2},$$

$$y'(0) = 0 \Rightarrow -2\sqrt{2}c_1 + 2\sqrt{2}c_2 = 0 \Rightarrow c_1 = \frac{1}{2}, c_2 = \frac{1}{2} \Rightarrow y = e^{-2\sqrt{2}t} \left(\frac{1}{2} \cos 2\sqrt{2}t + \frac{1}{2} \sin 2\sqrt{2}t \right)$$

$$\text{To find maximum, solve } y'(t) = 0 \Rightarrow y'(t) = -2\sqrt{2}e^{-2\sqrt{2}t} \sin 2\sqrt{2}t \Rightarrow -2\sqrt{2}e^{-2\sqrt{2}t} \sin 2\sqrt{2}t = 0$$

$$\Rightarrow \sin 2\sqrt{2}t = 0 \Rightarrow t = 0, \frac{\pi}{2\sqrt{2}}, \frac{\pi}{\sqrt{2}}, \text{ and as } t = \frac{\pi}{2\sqrt{2}}, y\left(\frac{\pi}{2\sqrt{2}}\right) \approx -0.02161 \text{ ft} \approx -0.2593 \text{ in (above equilibrium)}$$

$$19. L = \frac{1}{2}, R = 1, C = \frac{2}{3}, E(t) = 0 \Rightarrow \frac{1}{2} \frac{d^2q}{dt^2} + 1 \cdot \frac{dq}{dt} + \frac{2}{3}q = 0, q(0) = 2, q'(0) = 4 \Rightarrow \frac{1}{2}r^2 + r + \frac{2}{3} = 0$$

$$\Rightarrow r^2 + 2r + 4 = 0 \Rightarrow (r+3)(r+2) = 0 \Rightarrow r = -3 \text{ or } r = -2 \Rightarrow q(t) = c_1 e^{-3t} + c_2 e^{-2t} \Rightarrow q' = -3c_1 e^{-3t} - 2c_2 e^{-2t}$$

$$q(0) = 2 \Rightarrow c_1 + c_2 = 2; q'(0) = 4 \Rightarrow -3c_1 - 2c_2 = 4 \Rightarrow c_1 = -8, c_2 = 10 \Rightarrow q = -8e^{-3t} + 10e^{-2t}$$

$$\lim_{t \rightarrow \infty} q = \lim_{t \rightarrow \infty} (-8e^{-3t} + 10e^{-2t}) = 0$$

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

$$\Rightarrow r^2 + 2r + 5 = 0 \Rightarrow r = \frac{-2 \pm \sqrt{2^2 - 4(1)(5)}}{2(1)} = -1 \pm 2i \Rightarrow q(t) = e^{-t}(c_1 \cos 2t + c_2 \sin 2t)$$

$$\Rightarrow q' = e^{-t}((-c_1 + 2c_2) \cos 2t + (-2c_1 - c_2) \sin 2t); q(0) = 2 \Rightarrow c_1 + c_2 = 2; q'(0) = 3 \Rightarrow -c_1 + 2c_2 = 3$$

$$\Rightarrow c_1 = \frac{1}{3}, c_2 = \frac{5}{3} \Rightarrow q(t) = e^{-t} \left(\frac{1}{3} \cos 2t + \frac{5}{3} \sin 2t \right)$$

$$21. mg = 16 \Rightarrow m = \frac{16}{g}; 16 = k \cdot 4 \Rightarrow k = 4; \delta = 4.5; f(t) = 4 + e^{-2t} \Rightarrow \frac{1}{2} \frac{d^2y}{dt^2} + 4.5 \frac{dy}{dt} + 4y = 4 + e^{-2t}, y(0) = 2, y'(0) = 4$$

$$\Rightarrow \frac{1}{2}r^2 + 4.5r + 4 = 0 \Rightarrow r^2 + 9r + 8 = 0 \Rightarrow (r+8)(r+1) = 0 \Rightarrow r = -8 \text{ or } r = -1 \Rightarrow y_h = c_1 e^{-8t} + c_2 e^{-t};$$

$$y_p = A + Be^{-2t} \Rightarrow y_p' = -2Be^{-2t} \Rightarrow y_p'' = 4Be^{-2t} \Rightarrow \frac{1}{2}(4Be^{-2t}) + 4.5(-2Be^{-2t}) + 4(A + Be^{-2t}) = 4 + e^{-2t}$$

$$\Rightarrow 4A - 3Be^{-2t} = 4 + e^{-2t} \Rightarrow 4A = 4, -3B = 1 \Rightarrow A = 1, B = -\frac{1}{3} \Rightarrow y(t) = c_1 e^{-8t} + c_2 e^{-t} + 1 - \frac{1}{3}e^{-2t}$$

$$\Rightarrow y' = -8c_1 e^{-8t} - c_2 e^{-t} + \frac{2}{3}e^{-2t}; y(0) = 2 \Rightarrow c_1 + c_2 + \frac{2}{3} = 2 \Rightarrow c_1 + c_2 = \frac{4}{3}, y'(0) = 4 \Rightarrow -8c_1 - c_2 + \frac{2}{3} = 4$$

$$\Rightarrow -8c_1 - c_2 = \frac{10}{3} \Rightarrow c_1 = -\frac{2}{3}, c_2 = 2 \Rightarrow y(t) = -\frac{2}{3}e^{-8t} + 2e^{-t} + 1 - \frac{1}{3}e^{-2t}$$

$$22. m = 10; k = 140; \delta = 90; f(t) = 5 \sin t \Rightarrow 10 \frac{d^2y}{dt^2} + 90 \frac{dy}{dt} + 140y = 5 \sin t, y(0) = 0, y'(0) = -1 \Rightarrow 10r^2 + 90r + 140 = 0$$

$$\Rightarrow r^2 + 9r + 14 = 0 \Rightarrow (r+2)(r+7) = 0 \Rightarrow r = -2 \text{ or } r = -7 \Rightarrow y_h = c_1 e^{-2t} + c_2 e^{-7t}, y_p = A \sin t + B \cos t$$

$$\Rightarrow y_p' = A \cos t - B \sin t \Rightarrow y_p'' = -A \sin t - B \cos t$$

$$\Rightarrow 10(-A \sin t - B \cos t) + 90(A \cos t - B \sin t) + 140(A \sin t + B \cos t) = 5 \sin t$$

$$\Rightarrow (130A - 90B) \sin t + (90A + 130B) \cos t = 5 \sin t \Rightarrow A = \frac{13}{500}, B = -\frac{9}{500}$$

$$\Rightarrow y(t) = c_1 e^{-2t} + c_2 e^{-7t} + \frac{13}{500} \sin t - \frac{9}{500} \cos t \Rightarrow y' = -2c_1 e^{-2t} - 7c_2 e^{-7t} + \frac{13}{500} \cos t + \frac{9}{500} \sin t;$$

$$y(0) = 0 \Rightarrow c_1 + c_2 - \frac{9}{500} = 0, y'(0) = -1 \Rightarrow -2c_1 - 7c_2 + \frac{13}{500} = -1 \Rightarrow c_1 + c_2 = \frac{9}{500}, -2c_1 - 7c_2 = -\frac{517}{500}$$

$$\Rightarrow c_1 = -\frac{9}{50}, c_2 = \frac{99}{500} \Rightarrow y(t) = -\frac{9}{50} e^{-2t} + \frac{99}{500} e^{-7t} + \frac{13}{500} \sin t - \frac{9}{500} \cos t$$

$$23. m = 2 \Rightarrow mg = 2(9.8) = 19.6; 19.6 = k \cdot 1.96 \Rightarrow k = 10; \delta = 4; f(t) = 20 \cos t \Rightarrow 2 \frac{d^2y}{dt^2} + 4 \frac{dy}{dt} + 10y = 20 \cos t,$$

$$y(0) = 2, y'(0) = 3 \Rightarrow 2r^2 + 4r + 10 = 0 \Rightarrow r = \frac{-4 \pm \sqrt{4^2 - 4(2)(10)}}{2(2)} = -1 \pm 2i \Rightarrow y_h = e^{-t}(c_1 \cos 2t + c_2 \sin 2t)$$

$$y_p = A \sin t + B \cos t \Rightarrow y_p' = A \cos t - B \sin t \Rightarrow y_p'' = -A \sin t - B \cos t$$

$$\Rightarrow 2(-A \sin t - B \cos t) + 4(A \cos t - B \sin t) + 10(A \sin t + B \cos t) = 20 \cos t$$

$$\Rightarrow (8A - 4B) \sin t + (4A + 8B) \cos t = 20 \cos t \Rightarrow 8A - 4B = 0, 4A + 8B = 20 \Rightarrow A = 1, B = 2$$

$$\Rightarrow y(t) = e^{-t}(c_1 \cos 2t + c_2 \sin 2t) + \sin t + 2 \cos t \Rightarrow y' = e^{-t}((-c_1 + 2c_2) \cos 2t + (-2c_1 - c_2) \sin 2t) + \cos t - 2 \sin t;$$

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William Ardis



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